



**BARCHEMICALS PROFESSIONAL LINE
CATALOGUE OF CHEMICAL PRODUCTS
FOR SWIMMING POOLS
2024-1**



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COMPLETE PRODUCT LINE OF
REGISTERED MEDICAL AND
SURGICAL DEVICES AND BIOCIDES



ENGLISH

This catalogue invalidates all previous ones and will remain valid until it is replaced, even partially, with new versions.

Price lists are valid from the issue date.

Barchemicals reserves the right to change and update its prices, in line with any variation in raw material prices and the EUR/USD exchange rate.

Issue date: May 2024



GROUP
BARCHEMICALS®
THE PERFECT FORMULA

40
ANNI
BARCHEMICALS

This catalogue is the result of over forty years of experience of a large Italian group: Barchemicals Group.

Barchemicals Group is an all-Italian business currently consisting of three companies that share projects, visions and values, including customer and employee safety, and environmental protection and respect.

It works in the primary, drinking and **swimming pool** water treatment sector, both in Italy and abroad, covering all management issues with particular focus on water disinfection and treatment, environmental disinfection and sanitation, and control and automation.

Founded and directed by Dr. Corrado Barani, the group holds multiple patents and invests heavily in research and innovation resources.

Barchemicals is the parent company, which manufactures chemicals for treating and conditioning all kinds of water. Its thirty years of experience is condensed into 4 product ranges: Swimming pools, cleaners, Ti line and the ground-breaking “**I Sali della Vita**®” product line. An innovative and efficient production system allows Barchemicals to design and manufacture high-quality, reliable specialized chemicals in-house. These products meet stringent quality criteria and are developed through a strict research and safety testing process.

The **Barchemicals Chemical Catalogue** is intended for the most qualified players in the water treatment sector and professional swimming pool management companies. It represents the “sum” of the synergies put in place to fully meet the needs of the most qualified and demanding customers.

A constant focus on research and development has led to the creation of innovative products, which are presented in dedicated chapters:

- The “**I Sali della Vita**®” water treatment line introduces a new, revolutionary philosophy for managing swimming pools and spas that combines beauty with health, well-being with safety and exceptional versatility with low environmental impact.
- The **No-Chlor** line of alternatives to chlorine.
- The section dedicated to **cleaners** and in particular to **nanotechnology**.

With a view to enhancing R&D into **biosafety** and protecting the health of consumers and operators, products certified as **medical and surgical devices** and those undergoing pre-registration pursuant to the new **European Biocidal Products Regulation (Regulation (EU) 528/2012)** are specially marked.

This vision arises from the answer to a simple question: what does today’s consumer want? Quality, service, responsiveness, design, efficiency, innovation and the right quality/price ratio, with a constant focus on ensuring the safety of swimming pool users and professional maintenance services.

Barchemicals Group aims to meet its customers’ expectations and launch innovative products to promote a new “Safety and Well-being” approach, based on the technologies and know-how developed by the group over the past 35 years.



www.barchemicalsgroup.it

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BARCHEMICALS GROUP

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BIO SAFETY

Barchemicals introduces the basic concept of biosafety to the swimming pool industry.

The swimming pool industry will no longer be segmented into separate specialist sectors, but approached holistically with a focus on all safety-related aspects.

We at Barchemicals will go beyond the water and facility to include the surrounding environment (air, water, pool edges, reception, etc.). We will not stop at ensuring the health and safety of swimmers, but also of anyone using the pool, whether they are a companion or facility operator.

Biosafety does not just mean taking a holistic approach to the swimming pool, but also taking care of the surrounding environment, for example by not discharging pollutants or by preventing the spread of diseases (legionella) through the swimming pool equipment - such as air from AHUs or cooling towers - including in the areas surrounding the swimming facilities.

Biosafety also means preventing issues that can cause diseases in current or future users of swimming facilities, whether in the short or long term. For this reason, the Barchemicals R&D department, in collaboration with universities and private or public research institutes, funds and supports research into innovative materials that are less polluting and more effective.

In particular, Barchemicals focuses on developing biocides that are effective at low doses, less harmful to users' health and do not exhibit acquired resistance.

Barchemicals is also exploring the design of new self-sterilising filter materials that can reduce toxic pollutants in swimming pool water, domestic water or drinking water, as well as conducting research into ways of reducing airborne pollutants in swimming facilities.

Barchemicals supports research and development into new water treatment systems, but also promotes products and processes that can help people live healthier and happier lives, now and in the future.

Barchemicals is aware of its significant social role, as it has created jobs and improved the local economy in the past 40 years by employing dozens of people and training many young employees at its laboratories, production departments and offices.

Leveraging the opportunities of a competitive free market, Barchemicals has contributed to raising the quality of water treatment systems at swimming pools in Italy and abroad.

Commitment to research and innovation and promotion of personal health and well-being are core values that make Barchemicals a leader.

Biosafety is Barchemicals' latest target to ensure the health and well-being of the community.

WHAT DOES COMMITMENT TO BIOSAFETY MEAN FOR BARCHEMICALS GROUP?

1. Firstly, obtaining the registration of products containing biocides outside Europe, included in the authorized local and European registers (BPR).
2. Obtaining Medical and Surgical Device registration in Italy, as required by the Ministry of Health.
3. Avoiding the use of unauthorized products or of products lacking the technical specifications required by the BPR.
4. Selecting suppliers based on strict ethical requirements and on the quality of their raw materials.
5. Advancing R&D in collaboration with universities and research institutes.
6. Promoting conferences, and continuously training its human resources and customers.
7. Promoting R&D grants.
8. Developing new systems for water and air treatment (biomaterials, chemical-physical systems, UV, etc.)
9. Participating in and organizing conferences and events that promote biosafety.
10. Expanding biosafety application areas, helping to transfer expertise to areas other than swimming pools: drinking water for human and animal use, domestic water, industrial water, waste water, water for food use and for washing and treating food.
11. Encouraging expansion of the biosafety concept also in developing countries.

Castelnuovo Rangone

BARCHEMICALS GROUP

Dr. Corrado Barani

OUR PRINCIPLES



Acqua pura - Lavoriamo nel rispetto dell'acqua come fonte di benessere, purezza e principio vitale. Ci impegnamo quindi nel "trattare" l'acqua in tale ottica.

Pure water - We consider water to be a source of well-being, purity and vitality, which is why we are committed to "treating" water efficiently.

Design e Innovazione

Nel nostro DNA è fortemente radicato il concetto di Design ed Innovazione. Tutti i nostri prodotti rientrano in tale visione.

Design and Innovation

The concept of design and innovation is strongly rooted in our DNA. All our products are geared towards this.



Sicurezza - Prestiamo particolare attenzione alla sicurezza, sia di chi opera professionalmente nel settore piscina, sia di chi usufruisce come utente degli impianti natatori ed al rispetto di requisiti qualitativi soddisfacenti.

Safety - *Our organization is focused on safety, for both those working professionally in the pool sector and swimming facility users, in compliance with high quality standards.*



Risparmio energetico
Siamo costantemente impegnati nello studio ed introduzione di soluzioni che rispettino l'ambiente. Le nostre priorità sono la riduzione degli sprechi d'acqua, il risparmio energetico e l'utilizzo di fonti alternative.

Energy Saving - *We are committed to research and development into environmentally-friendly solutions. Our priorities are wasting less water, saving energy and using alternative sources.*

ACCREDITED LABORATORY 1879 L

The Barchemicals analysis laboratory is EN ISO 17025:2018 accredited with number 1879 L.

Accredia is the body designated by the Italian government to certify the competence and impartiality of organizations and laboratories that verify compliance of goods and services with the standards. It operates in accordance with Regulation (EC) 765/2008 and international standard ISO/IEC 17011.

ACCREDIA accredited the testing for which the laboratory requested and obtained accreditation. For these tests, it provides the technical expertise and ensures that the personnel are impartial, the facility and equipment in which they are carried out is suitable and that the quality management system is appropriate.

This expertise is periodically verified through random checks on the tests covered by the accreditation and on the quality management system.

Laboratory accreditation aims to protect the interest of clients by guaranteeing the technical expertise and professionalism of those conducting the testing, including compliance with specific technical standards or regulations. This guarantee is based on compliance with "good management" practices as applied to testing activities, through the adoption of documents originating outside the laboratory, such as official test methods and quality standards, and through internal documents such as the quality manual, management procedures and technical procedures.

BARCHEMICALS laboratories are accredited for the following tests:

- **Legionella**
- **Cryptosporidium** (this is the only private Italian laboratory that has obtained this accreditation to date)
- **Giardia** (this is the only private Italian laboratory that has obtained this accreditation to date)
- **Viable Microbial Count at 22 °C**
- **Viable Microbial Count at 36 °C**
- **Escherichia Coli**
- **Total Coliforms**
- **Enterococci**
- **Pseudomonas aeruginosa**
- **Staphylococcus aureus**
- **Clostridium perfringens**
- **pH**
- **Sampling (UNI 19458)**

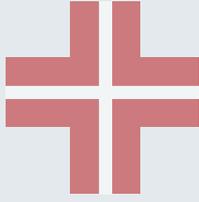
They are applied to the following matrices:

- **water intended for human consumption**
- **bathing water**
- **spa water**
- **mineral water**
- **cooling tower water**
- **natural water**
- **surface water**
- **water intended for air humidification**

Special analysis service on request.



HIGHLIGHTED PRODUCTS



SURGICAL MEDICAL DEVICES AND BIOCIDES (BPR)

The introduction of the European BPR Regulation (Regulation (EU) 528/2012) to protect human health has urged producers and distributors of disinfectants to implement dramatic changes in their products, the active ingredients of which (calcium hypochlorite, sodium hypochlorite, trichloroisocyanuric acid, etc.) are now required to be registered at a European level. All chemicals contained in formulations and products must be entered in a special European register, which includes a report to demonstrate its effectiveness, hazardousness and application areas.

The purpose of the regulation is to improve the quality of biocides circulating in the European Union, while ensuring a high level of safety for people and the environment.

Each biocide is subject to marketing authorization and its active ingredients must have been previously approved. Each active ingredient must first obtain EU approval, and the authorization of biocides is obtained from each Member State.

Generic products will disappear from the market, as will non-certified active ingredients that are not equivalent to the reference raw materials (Reference Source).

Barchemicals complies directly with the Biocidal Products Regulation (BPR), is included in Art. 95 of said regulation as a supplier of active ingredients, and has already applied for pre-registration of its formulations in Italy, in accordance with the regulation deadlines.

Barchemicals also manufactures many products registered as medical and surgical devices in Italy.

These actions imply automatic issue of marketing authorization in Italy, including during the transitional period.

HIGHLIGHTED PRODUCTS

ALL IN ONE

NEW!



The new frontier in private swimming pool treatment

A single product with multiple properties:

- **Acid pH corrector**
- **Prevents algal proliferation**
- **Suitable for domestic use (pursuant to Regulation (EU) 2019/1148)**
- **Savings of over 30% compared to competing products**
- **Calcium ion sequestrant**
- **Carbonate and bicarbonate sequestrant**
- **Protects pipes**
- **Combats biofilm formation**



HIGHLIGHTED PRODUCTS

QUASAR STICKS

NEW!



QUASAR

Medical and Surgical Device
Medical and Surgical Device, Italian Ministry of Health registration
No. 20121

Mix of calcium hypochlorite, anti-scale agents and alkaline earth salts

SINGLE MULTI-ACTION PRODUCT

Calcium hypochlorite sticks wrapped in slow-dissolving plastic film:

- **Chlorinating action**
- **Fights and prevents algae**
- **Coagulant effect**
- **Promotes iron and manganese ion precipitation before the filter**
- **Slow dissolution due to the plastic film wrapped around it**
- **Maximum safety**
- **Contains no cyanuric acid or boric acid**

The stick (patented) comes in a blister pack that doubles as a slow dissolving dosing device to be put directly into the skimmer basket.



HIGHLIGHTED PRODUCTS

ELECTROLYSIS LINE

Barsalt uses digitally derived SMART POWER® technology to optimally regulate the polarization power of the electrodes, which also feature a programmable bipolar function. This technological upgrade brings extremely precise control over the electrode working points, resulting in a significant reduction in limescale formation. This means up to 95% less cell cleaning and maintenance, ensuring a longer average service life for both the cells and the electrodes.

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BioVITRUM

Biovitrum is an innovative filter material for water filtration consisting of glass particles. It was designed by Barchemicals Group on the basis of laboratory research, field experience and partnerships with universities. Our Biovitrum products comply with **Italian Ministerial Decree 174 of 6 April 2004** and the European directive on products intended for human consumption.

Therefore, they can be used for filtering drinking and swimming pool water.

PAGE 83



TITANIUM LINE

A line of high-tech cleansing products for hard surfaces, **enriched with photocatalytic titanium**. Products in the titanium line are specially formulated to make treated surfaces self-cleaning.

Repeated use of these products reduces cleaning and makes it easier because they deposit micrometric titanium. The deposited photocatalytic particles emit radicals capable of destroying organic molecules on the surfaces, thus hindering biofilm development.

PAGE 96





I SALI DELLA VITA MAGNESIUM - POTASSIUM - IODINE

The Barchemicals R&D laboratories have created “I SALI DELLA VITA”, a mix of magnesium (Mg), potassium (K) and iodine (I) mineral salts, and trace elements with high biological activity. Mg, K and I are elements whose benefits have been well known since ancient times.



CHLORINE AND NO-CHLOR LINE

Even if the water is clear, it may contain pathogenic microorganisms that must be eliminated through the correct use of specific disinfectants designed specifically for this purpose.



FLOCCULANTS

Keeping the water transparent and crystal-clear is quick and easy with flocculants. They eliminate all the suspended particles that the filter fails to capture.



ALGAE PREVENTION

The algaecides prevent the appearance of greenish stains and algae formation on the walls, steps and bottom of swimming pools. Our algaecides also play a bactericidal role.



pH CORRECTORS

Water with a balanced pH level is essential for achieving perfect transparency and disinfection in order to protect our health.



WINTERIZERS

Water is an increasingly rare and precious asset, so it only makes sense to use products that will preserve it through to the start of the season. It is easy and inexpensive.



SPECIAL PRODUCTS

Barchemicals Group has a wide range of products for solving any problem that may arise in swimming pools and ensure they are always in perfect condition.



FILTER MEDIA

Biovitrum is an innovative filter material for water filtration consisting of glass particles. It was designed by Barchemicals Group on the basis of laboratory research, field experience and partnerships with universities.



MEASUREMENT

MEASUREMENT, ANALYSIS AND CONTROL

The aid of specific measuring instrument and those for water quality control is essential to ensure that swimming pool water is perfectly disinfected and transparent.



SURFACE CLEANING AND TREATMENT

CLEANERS AND FUNGICIDES

A complete line of cleaners and fungicides to rapidly and promptly resolve problems linked to scaling and residues on swimming pool walls and around the pool edge.

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KEY

BO = Bottle
JR = Jar
SA = Sack
PCS = Pieces

BU = Bucket
CA = Canister
IBC = Tank

DISCOUNT CATEGORIES



F = Chemicals and analysis kits



G = Technologies



H = Analysis



V = Filter media

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I SALI DELLA VITA

NUMBER ONE - THE ORIGINAL

The Delbet solution, well known for its ability to disinfect and regenerate biological tissues, corresponds to a 30 g/l solution of MgKI I Sali della Vita liquid.



I Sali della Vita: To be reborn every day from water to air



I SALI DELLA VITA

NUMBER ONE THE ORIGINAL

When dissolved in the bathing water, magnesium, potassium and iodine penetrate the skin via osmosis, bringing about the following benefits:

- They protect even the most sensitive skins
- They reinforce the immune system
- They provide a powerful anti-stress action
- They improve sleep
- They provide cardiotoxic benefits

The Barchemicals R&D laboratories have created "I SALI DELLA VITA", a mix of magnesium (Mg), potassium (K) and iodine (I) mineral salts, and trace elements with high biological activity. Mg, K and I are elements whose benefits have been well known since ancient times.

When dissolved in swimming pool and spa water, I Sali della Vita reproduce the health qualities of alkaline magnesium thermal waters.

The special formulation of I Sali della Vita in both liquid (ACQUA MADRE) and granule form (BIOSTART and BIOSTART STAB) makes them easier to use than solid salts, which are hard to dissolve.

USE AND DOSES

Spas and swimming pools with traditional disinfection systems: concentrations in the range 1000–3000 cc/m³ are recommended

Spas and swimming pools with "NO-CHLOR" disinfection systems: concentrations in the range 1000–3000 cc/m³ are recommended.

Spas and swimming pools with disinfection systems based on salt sterilizers:

1st Stage: Fill the pool with fresh water. Use "I Sali della Vita BIOSTART" (granules) according to the equipment manufacturer's instructions (generally 5000 – 6000g/m³);
2nd Stage: Reintegrate after backwashing; Use the specified amount of MgKI I Sali della Vita (ACQUA MADRE liquid or granules).

COMPOSITION

Mix of magnesium chloride, potassium chloride and trace elements.

An "anti-scale" factor prevents the inconvenience of salt precipitation, extends the life of the electrolytic systems and protects metal surfaces.

Chlorine stabilizing agents increase the potential of salt sterilizers.

PRODUCT LINES

I SALI DELLA VITA®

**NO-CHLOR LINE**

This is the quality "I Sali della Vita" line. It is mainly intended for private swimming pools and spas when the customer wishes to use **chlorine-free products**.

- **BIOZONO Ag+ ISDV (35%)** – Oxidant based on stabilized peroxides, silver ions and poly quaternary ammonium salts.
- **BIOZONO Ag+ 12% ISDV** – Oxidant based on stabilized peroxides, silver ions and poly quaternary ammonium salts (product for domestic use in accordance with European Regulation (EU) 2019/1148)
- **BIOACID - ISDV** – pH corrector with buffering effect
- **BIOACID SPECIAL <15% - ISDV** – pH corrector with buffering effect (product for domestic use in accordance with European Regulation (EU) 2019/1148)
- **BIOSAN - ISDV** – Algae prevention with **clarifying effect, super concentrated**
- **ACQUA MADRE - ISDV** – Stabilized aqueous solution based on Mg, K and I salts.

SALINE**ELECTROLYSIS LINE**

These are aimed at customers who wish to enjoy the benefits of replacing common cooking salt with "I Sali della Vita" without changing the salt sterilization system.

- **BIOSTART - ISDV** – I Sali della Vita granules for starting up swimming pools treated with saline electrolysis.
- **BIOSTART STAB - ISDV – NEW** – I Sali della Vita granules enriched with activator, stabilizer and anti-scale agents for swimming pools treated with saline electrolysis.
- **BIOACID - ISDV** – Natural pH corrector with buffering effect

- **BIOACID SPECIAL <15% - ISDV** – pH corrector with buffering effect (product for domestic use in accordance with European Regulation (EU) 2019/1148)
- **BIOSAN - ISDV** – Algae prevention with clarifying effect, super concentrated

SPA LINE

This line was created so that private customers could also enjoy the benefits of the "I Sali della Vita" in their spas or hot tubs, as well for those wanting to use emotional showers and Turkish baths. The special formula with added natural balsamic essences enhances the beneficial and relaxation effects, which are also boosted by inhaling and absorbing the saline mists produced by the sprays.

- **ACQUA MADRE - ISDV** – Stabilized aqueous solution based on Mg, K and I salts.
- **BIOSOL** – I Sali della Vita, a scented saturated solution available in various fragrances: eucalyptus, algaribe, vanilla
- **ELISIR** – Water-soluble fragrances for water in swimming pools, spas, hot tubs, saunas and wellness centres.
- **OXYGEN KIT** – Useful for treating water simply and in complete safety with oxygen.
- **CALCIUM HYPOCHLORITE KIT - QUASAR** – Useful for treating water simply and in complete safety with calcium hypochlorite.
- **CHLORINE KIT** – Useful for treating water simply and in complete safety with chlorine.

CHLOR LINE

When using "I Sali della Vita" in public swimming pools, it has to be combined with chlorine, an essential disinfectant, as required by current regulations.

The beneficial and bacteriostatic properties of "I Sali della Vita" ensure that the water remains in excellent hygienic condition, while reducing the concentration of chlorine required and thus avoiding the unwanted effects of using it in high concentrations.

- **QUASAR** – Medical Surgical Device no. 20121 – highly oxidative disinfectant based on calcium hypochlorite (65 – 70% active)
- **BIOACID - ISDV** – Natural pH corrector with buffering effect
- **BIOACID SPECIAL <15% - ISDV** – pH corrector with buffering effect (product for domestic use in accordance with European Regulation (EU) 2019/1148)
- **BIOSAN - ISDV** – Algae prevention with clarifying effect, super concentrated
- **ACQUA MADRE - ISDV** – Stabilized aqueous solution based on Mg, K and I salts.

ACCESSORY PRODUCTS

- **BLU CLEAR** – Clarifier for swimming pools and hot tubs. It makes the water crystal-clear. It eliminates oils, greases, dissolved heavy metals and any impurities. It is based on natural polymers and is completely biodegradable and non-toxic. It prevents formation of the black line that often appears near the water level in skimmer swimming pools and hot tubs
- **BIO-OXI - ISDV** – A formulation based on stabilized peroxide.
- **BIOSEQ – NEW** – Sequestrant with descaling action.

I SALI DELLA VITA®

PRODUCT LINES

I SALI DELLA VITA®


F

ACQUA MADRE

UFI Code: WRC0-AOPD-H002-M0YD

Stabilized aqueous solution based on Mg, K and I salts.

| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|--------------------|----------|--------|-----------------|
| 220621006 | ACQUA MADRE - ISDV | CA, 10 l | - | 600 l |

F

BIOACID

UFI Code: 5670-H03C-800T-JX2Y

pH corrector with buffering effect for professional use.

| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|----------------|---------------|--------|-----------------|
| 220616005 | BIOACID - ISDV | CA, 5 l | - | 560 l |
| 220616010 | BIOACID - ISDV | CA, 10 l | - | 400 l |
| 220616000 | BIOACID - ISDV | IBC, 1000 l * | - | - |

* For Bioacid in tanks, a contribution to costs is calculated case by case based on delivery distance and inconvenience.

F

BIOACID SPECIAL < 15%*

UFI Code: D300-F077-800A-ANPN

pH corrector with buffering effect for domestic use.

| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|-----------------------------|----------|--------|-----------------|
| 220616040 | BIOACID SPECIAL <15% - ISDV | CA, 10 l | - | 400 l |

(*) Product not for professional use in accordance with European Regulation (EU) 2019/1148

I SALI DELLA VITA®

F

BIOZONO (35%)

UFI Code: 22N0-E0MW-7002-S4GN

NEW!

Oxidant product based on stabilized hydrogen peroxide for treating water in swimming pools and hot tubs.

It has anti-scale agents to prevent limescale formation, as well as a powerful anti-corrosion action in metal pipes.

Product compliant with EN 902/2016 "Chemicals used for treatment of water intended for human consumption – Hydrogen peroxide".



| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|-------------|----------|--------|-----------------|
| 220640008 | BIOZONO* | CA, 20 l | - | 480 l |

* Sold in complete pallets only

F

BIOZONO Ag+ ISDV (35%)

UFI Code: 7TA0-S031-400M-A8JP

A special formulation containing silver ions and anti-scale agents to develop active oxygen and hydroxyl ions and, containing poly quaternary ammonium salts to help keep bathing water clear and clean, without any opalescence due to precipitation of mineral salts and organic substances in the water and on the walls.

It has a strong anti-corrosion effect on metal structures.

For professional use only.



| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|--------------------|----------|--------|-----------------|
| 220642006 | BIOZONO Ag+ - ISDV | CA, 10 l | - | 400 l |

Product for professional use.

F

BIOZONO Ag+ 12% - ISDV

UFI Code: JNA0-R0Q7-H00M-0KDJ

A special formulation containing silver ions and anti-scale agents to develop active oxygen and hydroxyl ions and, containing poly quaternary ammonium salts to help keep bathing water clear and clean, without any opalescence due to precipitation of mineral salts and organic substances in the water and on the walls.

It has a strong anti-corrosion effect on metal structures.



| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|------------------------|----------|--------|-----------------|
| 220642036 | BIOZONO Ag+ 12% - ISDV | CA, 10 l | - | 400 l |

Product for professional and domestic use in accordance with European Regulation (EU) 2019/1148

I SALI DELLA VITA®

F

BIO-OXI**BIO-OXI LIQUID**

UFI Code: UED0-D06J-Y000-WRMW

Based on bis (peroxymonosulphate)bis(sulphate) dipentapotassium.

BIO-OXI TABLETS

UFI Code: H8D0-C0TS-C001-K2FS

Based on bis (peroxymonosulphate)bis(sulphate) dipentapotassium.

BIO-OXI GRANULES

UFI Code: K5D0-V04D-100H-WQVQ

Based on bis (peroxymonosulphate)bis(sulphate) dipentapotassium.



| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|---------------------------------|-----------|--------|-----------------|
| 010610006 | BIO-OXI Liquid - ISDV | CA, 10 l | - | 400 l |
| 220642025 | BIO-OXI Tablets, 100 g - ISDV * | JR, 1 KG | - | 20 pcs/box |
| 220642026 | BIO-OXI Tablets, 100 g - ISDV | BU, 6 KG | - | 300 kg |
| 010610026 | BIO-OXI Granules - ISDV | BU, 10 KG | - | 360 kg |

*while stocks last

QUASAR LINE



Recommended use

Initial treatment: use a specific dilutor to add 10 to 15 grams of Quasar granules or tablets per cubic metre of water to be treated. Adjust the pH in the range 7.0 to 7.4.

Maintenance treatment: every day, dose enough Quasar to maintain the active free chlorine content in the pool in the range 0.7 to 1.5 ppm, to ensure the pool is properly disinfected.

Ideal for

Quasar is ideal for every kind of swimming pool. Its special anti-sediment formula prevents calcium ions from precipitating and depositing, so it can be used with excellent results in any kind of water. It is designed specifically to dilute the dosage perfectly using DDS LINE dosing units (DDS EVOLUTION, DDS ECO WASH and DDS 3000).

Added value

It is used for daily maintenance and in shock treatments. It does not increase the isocyanuric acid in swimming pool water. It has a high active chlorine content.

The water does not need to be balanced according to Langelier's index after using Quasar because it contains an anti-scale agent.

F QUASAR

Medical and Surgical Device

Italian Ministry of Health registration No. 20121

Case Numbers in Italy: BC-YD047619-24 f4 PT5; BC-UV046942-98 F3 PT5;
BC-WF046910-35 F2 PT2,PT3,PT4; BC-RL046890-22 F1 PT2
UFI code: 8000-XOHT-X00U-NA3A

DISINFECTANT FOR SWIMMING POOLS**QUASAR GRANULES**

Based on calcium hypochlorite and anti-scale agents. Mix of calcium hypochlorite, anti-scale agents and alkaline earth salts.

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|---|-----------|------------|-----------------|
| 210108069 | QUASAR Granules - Medical and Surgical Device no. 20121 | BU, 5 KG | - | 300 kg |
| 210108070 | QUASAR Granules - Medical and Surgical Device no. 20121 | BU, 10 KG | - | 360 kg |
| 210108072 | QUASAR Granules - Medical and Surgical Device no. 20121 | BU, 25 KG | - | 450 kg |

QUASAR TABLETS

Tablets containing calcium hypochlorite, anti-scale agents and alkaline earth salts.

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|--|-----------|------------|-----------------|
| 210108083 | QUASAR tablets, 7 g - Medical and Surgical Device no. 20121 | JR, 1 KG | 12 | 480 pcs |
| 210108078 | QUASAR tablets, 7 g - Medical and Surgical Device no. 20121 | BU, 10 KG | - | 360 kg |
| 210108082 | QUASAR tablets, 7 g - Medical and Surgical Device no. 20121 | BU, 25 KG | - | 450 kg |
| 210108050 | QUASAR tablets, 10 g - Medical and Surgical Device no. 20121 | BU, 25 KG | - | 450 kg |

QUASAR STICKS

Sticks containing calcium hypochlorite, anti-scale agents and alkaline earth salts.

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|--|-------------|------------|-----------------|
| 210108096 | QUASAR Sticks, 300 g - Medical and Surgical Device no. 20121 | BU, 4.5 KG | - | 270 kg |
| 210108098 | QUASAR Sticks, 300 g - Medical and Surgical Device no. 20121 | BU, 24.9 KG | - | 448.2 kg |

The stick (patented) comes in a blister pack that doubles as a slow dissolving dosing device to be put directly into the skimmer basket.



I SALI DELLA VITA®

F

BIOSAN

UFI Code: TE30-70QV-T001-FWF4

Prevents and combats algae. It is a concentrated product. Acting in synergy with chlorine/oxygen/bromine, its coagulating power on both inorganic cations and organic substances ensures that it keeps the swimming pool water crystal-clear and clean. It is based on poly quaternary ammonium salts. **Non-foaming.**



| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|---------------|----------|--------|-----------------|
| 220614005 | BIOSAN - ISDV | CA, 5 l | - | 560 l |
| 220614011 | BIOSAN - ISDV | CA, 10 l | - | 600 l |

F

BIOSTART

UFI Code: JT70-10X4-E009-6A5E

Biostart is a mix of magnesium, potassium and iodine mineral salts and trace elements needed to reconstruct homeostatic solutions for use in swimming pools.

I Sali della Vita granules for starting up swimming pools treated with saline electrolysis.



| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|-----------------|-----------|--------|-----------------|
| 060102078 | BIOSTART - ISDV | BU, 10 KG | - | 360 kg |

F

BIOSTART STAB

UFI Code: XV70-J0MH-Q00S-UNRG

BIOSTART STAB is a mix of magnesium, potassium and iodine mineral salts and trace elements needed to reconstruct homeostatic solutions for use in swimming pools. **It contains activating, stabilizing and anti-scale agents** to increase the chlorine production of sterilizers by prolonging the time they remain in water. It is especially suitable for use during the first stage of swimming pool and spa initialization with salt electrolysis systems.

TOP PRODUCT!



| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|----------------------|-----------|--------|-----------------|
| 060102082 | BIOSTART STAB - ISDV | BU, 10 KG | - | 360 kg |

I SALI DELLA VITA®**F****BIOSOL****EUCALYPTUS** UFI code: AJH0-P0AM-N00S-N4M0**VANILLA** UFI code: 8NH0-6010-Y008-AG62**ALGARIBE** UFI code: JQH0-P0QE-800R-YTS4

I Sali della Vita is a scented saturated solution available in various fragrances: eucalyptus, algaribe, vanilla.

It combines the benefits of ACQUA MADRE ISDV with pleasant water-soluble fragrances.

| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|--------------------------|---------|--------|-----------------|
| 220619002 | BIOSOL Eucalyptus - ISDV | B0, 1 l | 20 | 300 pcs |
| 220632002 | BIOSOL Vanilla - ISDV | B0, 1 l | 20 | 300 pcs |
| 220636002 | BIOSOL Algaribe - ISDV | B0, 1 l | 20 | 300 pcs |

SPA LINE

**THE PERFECT LINE FOR YOUR SPA**

Special products for treating spas, hot tubs, saunas and wellness centres

F

BIO-OXI**BIO-OXI LIQUID**

UFI Code: UED0-D06J-Y000-WRMW

Based on bis (peroxymonosulphate)bis(sulphate) dipentapotassium.

BIO-OXI - I SALI DELLA VITA – TABLETS

UFI Code: H8D0-C0TS-C001-K2FS

Based on bis (peroxymonosulphate)bis(sulphate) dipentapotassium.

BIO-OXI GRANULES

UFI Code: K5D0-V04D-100H-WQVQ

Based on bis (peroxymonosulphate)bis(sulphate) dipentapotassium.



| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|---------------------------------|-----------|------------|-----------------|
| 010610006 | BIO-OXI Liquid - ISDV | CA, 10 l | - | 400 l |
| 220642025 | BIO-OXI Tablets, 100 g - ISDV * | JR, 1 KG | 20 | - |
| 220642026 | BIO-OXI Tablets, 100 g - ISDV | BU, 6 KG | - | 300 kg |
| 010610026 | BIO-OXI Granules - ISDV | BU, 10 KG | - | 360 kg |

*while stocks last

F

BIOACID

UFI Code: 5670-H03C-800T-JX2Y

pH corrector with buffering effect for professional use.



| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|----------------|-------------|--------|-----------------|
| 220616005 | BIOACID - ISDV | CA, 5 l | - | 560 l |
| 220616010 | BIOACID - ISDV | CA, 10 l | - | 400 l |
| 220616000 | BIOACID - ISDV | IBC, 1000 l | - | - |

Product for professional use.

SPA LINE



F

BIOACID SPECIAL <15%*

UFI Code: D300-F077-800A-ANPN

pH corrector with buffering effect for domestic use.

| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|-----------------------------|----------|--------|-----------------|
| 220616040 | BIOACID SPECIAL <15% - ISDV | CA, 10 l | - | 400 l |

(*) Product not for professional use in accordance with European Regulation (EU) 2019/1148

F

BIOSAN

UFI Code: TE30-70QV-T001-FWF4

Prevents and combats algae. It is a concentrated product.

Acting in synergy with chlorine/oxygen/bromine, its coagulating power on both inorganic cations and organic substances ensures that it keeps the swimming pool water crystal-clear and clean.

It is based on poly quaternary ammonium salts. **Non-foaming.**

| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|---------------|----------|--------|-----------------|
| 220614005 | BIOSAN - ISDV | CA, 5 l | - | 560 l |
| 220614011 | BIOSAN - ISDV | CA, 10 l | - | 600 l |

F

BLU CLEAR

UFI Code: FE90-P01P-700P-RT7N

Multifunctional agent with a clarifying and coagulating effect for fresh and salt water in swimming pools and spas.

Based on natural polymers: Chitosan. Prevents formation of iron and manganese stains on PVC liners.

TOP
PRODUCT!

| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|-------------|----------|--------|-----------------|
| 010602001 | BLU CLEAR | B0, 1 l | 20 | 300 pcs |
| 010602007 | BLU CLEAR | CA, 5 l | - | 560 l |
| 010602011 | BLU CLEAR | CA, 10 l | - | 600 l |

F

BIOSEQ

UFI Code: D890-N0NV-M00Q-E42H

Sequestrant with descaling action



| Code | Description | Package | Pieces | Pallet Quantity |
|------------|-------------|---------|--------|-----------------|
| 0852005002 | BIOSEQ | B0, 1 l | 20 | 300 pcs |

SPA LINE



WATER-SOLUBLE ESSENCES FOR SPAS AND WELLNESS CENTRES

Water-soluble fragrances for water in swimming pools, spas, hot tubs, saunas and wellness centres

F

ELISIR

AUSTRALIA

UFI code: JG80-30F9-V008-G1TX

ALGARIBE

UFI code: SR80-M0HG-S00R-F2K4

FLEUR

UFI code: UN80-30U3-G007-TR02

TROPICAL

UFI code: PK80-M04Q-500R-4DE0

MENTHOLATED PINE UFI code: PU80-406W-3007-4E56



| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|--|---------|--------|-----------------|
| 220622006 | ELISIR-AUSTRALIA Eucalyptus Aroma | CA, 5 l | - | 560 l |
| 220624006 | ELISIR-ALGARIBE Algaribe Aroma | CA, 5 l | - | 560 l |
| 220626004 | ELISIR-FLEUR Vanilla Aroma | CA, 5 l | - | 560 l |
| 220628006 | ELISIR-TROPICAL Tropical Fruit Aroma | CA, 5 l | - | 560 l |
| 220632006 | ELISIR-MENTHOLATED PINE Mentholated Pine Aroma | CA, 5 l | - | 560 l |

MOULD PREVENTION

F

MOLD STOP

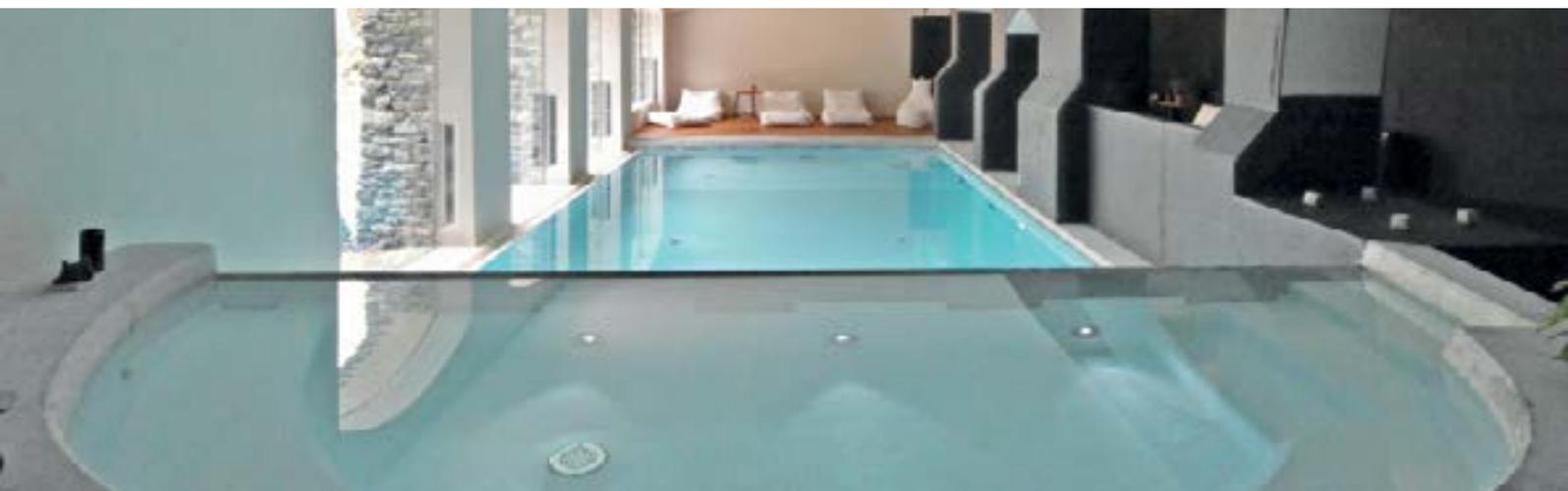
UFI Code: A8K0-T04J-S00N-VY89

A product for mould prevention on hard surfaces. Odourless.

Based on photocatalytic titanium that develops active oxygen. MOLD STOP spray acts on any type of surface. It is suitable for silicone, wood, masonry, plaster and wallpaper surfaces.

All areas where it is used are immediately viable and habitable, making the product very suitable for use in living rooms, bedrooms, bathrooms, etc. Catalytic titanium makes the product act exceptionally quickly and ensures its action persists, even for days.

| Code | Description | Package | Pieces | Pallet quantity |
|-----------|-------------|---------|------------------|-----------------|
| 020208002 | MOLD STOP | B0, 1 l | 2 B0 + 2 trigger | 300 pcs |



ELECTROLYSIS LINE

BARSALT WITH SALT

Innovative technology: bipolar electrolysis

BARSALT uses digitally derived **SMART POWER® TECHNOLOGY** to optimally regulate the polarization power of the electrodes, which also feature a programmable bipolar function. This technological upgrade brings extremely accurate control over the electrode working points, resulting in a significant reduction in limescale formation. This means up to 95% less cell cleaning and maintenance, ensuring a longer average service life for both the cells and the electrodes.

- Chlorine production settable from 0 to 10 with a 2-digit display
- SMART POWER® technology offers stable chlorine production
- Self-cleaning cells with polarity reversal settable from 3 to 9 hours, depending on water hardness
- Superchlorination mode (BOOST)
- Visual alarms
- Safety alarms: no water/low salt content/cell error
- Minimum salt level: 2.5 g/l (recommended at the beginning of the season: 5 g/l)

**SMART POWER® TECHNOLOGY**

- Innovative bipolar cell with a service life of more than 16,000 hours
- Small size and light weight
- Structure with anti-corrosion protection
- Up to 60% reduction in electricity consumption
- Compatible with any filtration system and swimming pools up to 150 m³

| Code | Description | Pool Volume in m ³ | Chlorine Production - g/h |
|------------|--------------------------------|-------------------------------|---------------------------|
| 0123055008 | BARSALT 150 | 150 | 32 |
| 0123194100 | BARSALT 150 RCB CELL | - | - |
| 0123194102 | BARSALT 150 RCB CELL ENCLOSURE | - | - |

ELECTROLYSIS LINE

F

BIOSTART

UFI Code: JT70-10X4-E009-6A5E

Biostart is a mix of magnesium, potassium and iodine mineral salts and trace elements needed to reconstruct homeostatic solutions for use in swimming pools. It is especially suitable for use during the first stage of swimming pool and spa initialization with salt electrolysis disinfection systems. I Sali della Vita granules for starting up swimming pools treated with saline electrolysis.



| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|-----------------|-----------|--------|-----------------|
| 060102078 | BIOSTART - ISDV | BU, 10 KG | - | 360 kg |

F

BIOSTART STAB

UFI Code: XV70-J0MH-Q00S-UNRG

BIOSTART STAB is a mix of magnesium, potassium and iodine mineral salts and trace elements needed to reconstruct homeostatic solutions for use in swimming pools. **It contains activating, stabilizing and anti-scale agents** to increase the chlorine production of sterilizers by prolonging the time they remain in water. It is especially suitable for use during the first stage of swimming pool and spa initialization with salt electrolysis systems.



| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|----------------------|-----------|--------|-----------------|
| 060102082 | BIOSTART STAB - ISDV | BU, 10 KG | - | 360 kg |

F

BLU CLEAR

UFI Code: FE90-P01P-700P-RT7N

Multifunctional agent with a clarifying and coagulating effect for fresh and salt water in swimming pools and spas. Based on natural polymers: Chitosan. It prevents formation of iron and manganese stains on PVC liners and black lines at the waterline.



| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|-------------|----------|--------|-----------------|
| 010602001 | BLU CLEAR | B0, 1 l | 20 | 300 pcs |
| 010602007 | BLU CLEAR | CA, 5 l | - | 560 l |
| 010602011 | BLU CLEAR | CA, 10 l | - | 600 l |

F

SEQ 06

UFI Code: A2F0-00A3-S00E-G7Q4

Mix of acids and sequestrants for DDS, DOSAKLOR and FEEDER dosing units. It is a special sequestrant for heavy metals in swimming pools. It is a chemical additive inhibitor and dispersant to prevent limescale caused by calcium hypochlorite on injectors and dosing units. It acts as sequestrant and dispersant for calcium and magnesium ions in the water, but also for iron and manganese ions. It is suitable for adding to very hard water that is rich in salts prior to chlorination.

Ideal for salt sterilizers. Product for professional use.



| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|-----------------|----------|--------|-----------------|
| 180398013 | SEQ 06 - Liquid | CA, 10 l | - | 400 l |

ELECTROLYSIS LINE

BIOSAN

UFI Code: TE30-70QV-T001-FWF4

Prevents and combats algae. It is a concentrated product. Acting in synergy with chlorine/oxygen/bromine, its coagulating power on both inorganic cations and organic substances ensures that it keeps the swimming pool water crystal-clear and clean. It is based on poly quaternary ammonium salts. **Non-foaming.**



| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|---------------|----------|--------|-----------------|
| 220614005 | BIOSAN - ISDV | CA, 5 l | - | 560 l |
| 220614011 | BIOSAN - ISDV | CA, 10 l | - | 600 l |

PULIDETER

UFI Code: H0D0-U0RK-E00J-K1QK

Concentrated liquid cleaner with descaling and degreasing properties. It is suitable for cleaning electrolytic cells.



| Code | Description | Package | Pieces | Pallet quantity |
|--------|-------------|-------------|--------|-----------------|
| 001001 | PULIDETER | BO, 0.750 l | 12 | 300 pcs |
| 001010 | PULIDETER | CA, 10 l | - | 400 l |

ALL IN ONE



ALL IN ONE

NEW!

F

ALL IN ONE is a multifunction product for pool management.

A single product with multiple properties:

- Acid pH corrector
- Prevents algal proliferation
- Suitable for domestic use (pursuant to Regulation (EU) 2019/1148)
- Savings of over 30% compared to competing products
- Calcium ion sequestrant
- Carbonate and bicarbonate sequestrant
- Protects pipes
- Combats biofilm formation



The POOLS and ELETTRIO versions differ in their intended uses:

- **POOLS** is for all conventionally chlorinated swimming pools
- **ELETTRIO** is for pools treated with electrolysis and No Chlor systems, with an enhanced action in terms of specific sequestrants and preservatives to ensure that the electrolytic cells function

| Code | Description | Package | Pieces | Pallet quantity |
|-----------|---------------------|----------|--------|-----------------|
| 220691006 | ALL IN ONE ELETTRIO | CA, 10 l | - | 400 l |
| 220690006 | ALL IN ONE POOLS | CA, 10 l | - | 400 l |



F

ALL IN ONE POOLS

UFI Code: YVP0-2047-N00F-P9R0

TOP
PRODUCT!**Properties**

The special formulation of **ALL IN ONE pools** ensures a 30% saving compared to common sulphur-based correctors for domestic use. It stabilizes the pH of the swimming pool water.

It prevents algae proliferation and precipitation of calcium, iron and magnesium salts, and contains inhibitors to protect metal pipes.

Use and doses

For water with high alkalinity: from 800 to 1,200 cc of **ALL IN ONE pools** per 100 m² of water to lower the pH by 0.1 (8–12 cc/m²)

For water with medium alkalinity: from 400 to 600 cc of **ALL IN ONE pools** per 100 m² of water to lower the pH by 0.1 (4–6 cc/m²)



| Code | Description | Package | Pieces | Pallet quantity |
|-----------|------------------|----------|--------|-----------------|
| 220690006 | ALL IN ONE POOLS | CA, 10 l | - | 400 l |

F

ALL IN ONE ELETTR0

UFI Code: 0YP0-J0TM-X00X-ANA2

TOP
PRODUCT!**Properties**

The special formulation of **ALL IN ONE elettro** ensures a 30% saving compared to common sulphur-based correctors for domestic use.

It stabilizes the pH of the swimming pool water, and prevents scaling on the electrodes of the electrolysis systems, extending their service life.

It prevents algae proliferation and precipitation of calcium, iron and magnesium salts, and contains inhibitors to protect metal pipes.

Use and doses

For water with high alkalinity: from 800 to 1,200 cc of **ALL IN ONE pools** per 100 m² of water to lower the pH by 0.1 (8–12 cc/m²)

For water with medium alkalinity: from 400 to 600 cc of **ALL IN ONE pools** per 100 m² of water to lower the pH by 0.1 (4–6 cc/m²)



| Code | Description | Package | Pieces | Pallet quantity |
|-----------|--------------------|----------|--------|-----------------|
| 220691006 | ALL IN ONE ELETTR0 | CA, 10 l | - | 400 l |





CHLORINE AND NO-CHLOR LINES

WATER THAT IS ALWAYS HEALTHY AND
READY TO USE

CHLORINE AND NO-CHLOR LINES

WATER THAT IS ALWAYS HEALTHY AND READY TO USE

The main aim of disinfection and water treatment is to guarantee the following for bathers and swimming pool users:

- Perfectly sanitized water in order to prevent the spread of disease between bathers.
- Maximum comfort (perfectly balanced water with excellent pH).
- Clear, transparent water with pleasant organoleptic properties to ensure that they do not cause reddening or irritation among bathers.

Water disinfection treatment in swimming pools can basically be divided into two groups:

- Chlorine-based treatments;
- No-Chlor treatments

In either case, the water filtration system must be efficient and effective, leaving chemical treatment to take care of only oxidizing and disinfecting substances that are not normally captured by the filter or that are released into the pool by bathers and therefore not filtered in time.

CHLORINE-BASED TREATMENTS

Chlorine disinfectant is the most commonly used product worldwide for disinfecting water because of the following characteristics:

- Extensive action
- Low cost
- Readily available

Elemental chlorine is a molecular (diatomic) gas that hardly exists in nature as such because it is extremely reactive and hazardous. For this reason, it is practically no longer used as it is for chlorinating swimming pools, but is added to water through its derivatives, which are stable during storage and less hazardous.

The recommended level of free chlorine in swimming pools is normally 1 ppm (1 mg/l), but can be increased (1.5 mg/l) for high-risk swimming pools



Chlorine derivatives can be split into two groups, based on their chemical nature:

- **Inorganic chlorine derivatives** – This group includes inorganic chlorine salts such as calcium hypochlorite and sodium hypochlorite;
- **Organic chlorine derivatives** – Derivatives of isocyanuric acid (organic substance) released in the water after these products have been used. Sodium dichloroisocyanurate (SDIC) and trichloroisocyanuric acid (TCCA) are part of this group.

Regardless of the kind of chlorinating agent used, the real disinfectant in a water environment is always hypochlorous acid (HClO), which is generated via hydrolysis reactions of the chlorine derivatives.

SODIUM DICHLOROISOCYANURATE (SDIC)

The ideal product for maintenance of open air pools.

Sodium dichloroisocyanurate (SDIC), more commonly known as rapid chlorine, is mainly used for normal water maintenance in open air swimming pools because of its high stability to photolysis.

Sometimes it is used for rapid chlorine shock treatment in the absence of any other more specific products.

TRICHLOROISOCYANURIC ACID (TCCA)

The use of TCCA as a disinfectant guarantees the correct amount of free chlorine in the swimming pool.

It is also known as slow chlorine due to its limited solubility.

Free chlorine in the pool is essential to ensure excellent hygienic conditions.

A chlorine content below 1 ppm could lead to a bacterial and algae attack, encouraging the formation of unhygienic and unpleasant water.

The quantity of free chlorine in the pool depends on various factors, such as the number of bathers, solar radiation, the temperature and atmospheric conditions, as well as the effectiveness of the filtration.

It is advisable to check the free chlorine level at least three times a day if there is no automatic system.

CALCIUM HYPOCHLORITE

When treating swimming pool water, calcium hypochlorite offers several advantages:

- High available chlorine content (70%) that remains stable over time
- Does not give off isocyanuric acid, unlike chloroisocyanurates, which pose the risk of overdosing cyanuric acid and consequently inhibiting the action of chlorine
- With calcium hypochlorite, the pH of the swimming pool water rises only marginally compared to what happens with the sodium hypochlorite

NO-CHLOR SYSTEM

This heading covers all disinfection systems that do not develop chlorine but consist of disinfectant chemicals and alternative oxidants:

- Treatments based on oxidants that develop oxygen
- Treatments based on bromine derivatives that develop hypobromous acid (HBrO)
- Treatments with biologically active metal ions (Ag⁺, Cu⁺⁺)
- Broad-spectrum organic molecules such as poly quaternary ammonium salts.

CHLORINE LINE

RAPID DICHLORINE OR CHLORINE IS IDEAL FOR MAINTENANCE OF OPEN AIR SUMMER SWIMMING POOLS.

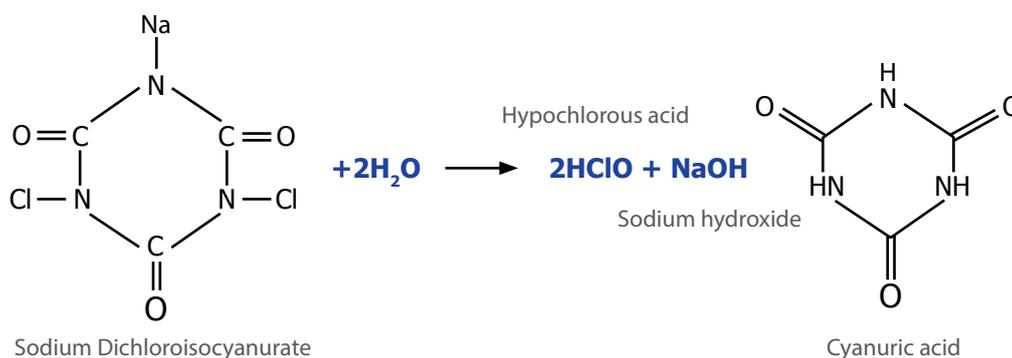


**MEDICAL AND SURGICAL
DEVICE**

Sodium dichloroisocyanurate (SDIC), more commonly known as rapid chlorine, is mainly used for normal water maintenance in open air swimming pools because of its stability to photolysis. Sometimes it is used for rapid chlorine shock treatment in the absence of any other more specific products.

ADVANTAGES

- EASY TO HANDLE
- DISSOLVES RAPIDLY
- NEUTRAL pH
- DOES NOT LOSE ITS STABILITY WHEN EXPOSED TO U.V. RAYS.



Since SDIC is more stable in terms of deterioration under the sun's UV rays compared to inorganic chloride, when chlorinating by hand, it allows the hypochlorous acid to remain in the water longer, thus ensuring proper disinfection, even without an automatic, continuous dosing unit.

BICLOR 56



Medical and Surgical Device, Italian Ministry of Health registration No. 20230

UFI Code: WP90-603V-5005-RTYU

Fast dissolving dichlorine, highly stabilized, with 56% active chlorine content, for treating water in swimming pools. It is available in granules or tablets.

Ideal for

For treating all kinds of open air swimming pool exposed to the sun's rays.

Added value

As it is easily soluble in water, it quickly achieves the amount of residual chlorine needed.

Compared to other products, the free residual chlorine obtained is more stable when exposed to the sun's ultraviolet rays. It does not change the pH of the water.

Recommended use

The level of residual free chlorine should be in the range 0.7 to 1.5 mg/l, which can be easily measured using the chlorine analysis kit (DPD or orthotolidene - see page 91).



BICLOR 56 GRANULES

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|--------|---|-----------|------------|-----------------|
| 049001 | BICLOR 56 Granules - Medical and Surgical Device no. 20230 | JR, 1 KG | 20 | 400 pcs |
| 049005 | BICLOR 56 Granules - Medical and Surgical Device no. 20230 | BU, 5 KG | - | 300 kg |
| 049015 | BICLOR 56 Granules - Medical and Surgical Device no. 20230 | BU, 10 KG | - | 360 kg |
| 049125 | BICLOR 56 Granules - Medical and Surgical Device no. 20230 | CA, 25 KG | - | 600 kg |

BICLOR 56 TABLETS

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|--------|---|-----------|------------|-----------------|
| 049127 | BICLOR 56 Tablets 20 g - Medical and Surgical Device no. 20230 | JR, 1 KG | 12 | 264 pcs |
| 049128 | BICLOR 56 Tablets 20 g - Medical and Surgical Device no. 20230 | BU, 5 KG | - | 300 kg |
| 049130 | BICLOR 56 Tablets 20 g - Medical and Surgical Device no. 20230 | CA, 25 KG | - | 600 kg |

CHLORINE LINE



MEDICAL AND SURGICAL
DEVICE

THE LOW SOLUBILITY

OF TRICHLOROISOCYANURIC ACID (TCCA)

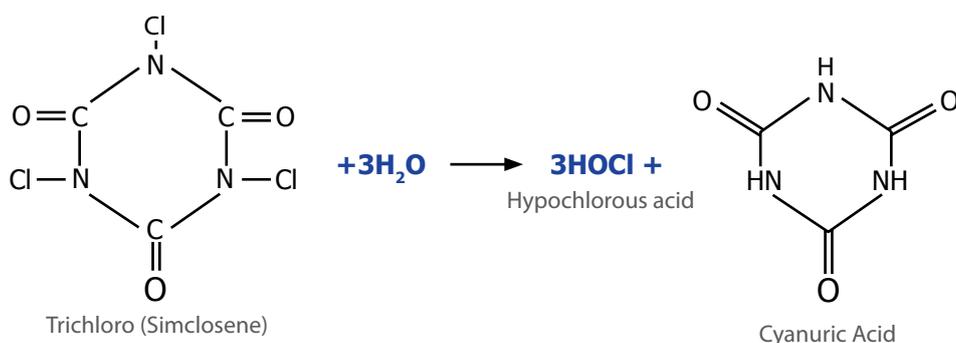
MEANS THAT CHLORINE IS RELEASED SLOWLY INTO THE POOL
EVEN IN SYSTEMS WITHOUT AUTOMATIC DOSING.

Free chlorine in the pool is essential to maintain proper hygienic conditions. Due to its limited solubility, it is also known as slow chlorine and is normally used in tablet form, directly in skimmers or with specific diluting systems (DDS, feeders, etc.)



A chlorine content below 1 ppm could lead to a bacterial and algae attack, creating an unpleasant and unhygienic environment. The correct amount of product to have 1 ppm of chlorine depends on a number of factors: the number of bathers, solar radiation, the temperature and atmospheric conditions in general. We recommend checking the free chlorine level at least 3 times a day.

Since TCCA is more stable in terms of deterioration under the sun's UV rays compared to inorganic chloride, when chlorinating by hand, it allows the hypochlorous acid to remain in the water longer, thus ensuring proper disinfection.



Choose a European product and reject any chlorine of unknown or dubious origin.

Only European chlorine has passed all the quality and effectiveness standards during the manufacturing process and is certified to protect people and the environment.

TRICLOR 90 / TCCA (SIMCLOSENE)

Slow dissolving TCCA, containing 90% useful active chlorine, highly stabilized for treating and disinfecting swimming pool water.



Recommended use

TCCA is normally available in 20/200/500g tablets and is dosed in water by placing it in the skimmer or in specific containers known as feeders. We recommend keeping the active free chlorine content in the range 0.7 to 1.5 ppm, equivalent to an average use of 1 to 4 g/m³/day, depending on the kind of swimming pool and the number of people using it.

Ideal for

For every kind of swimming pool.

Added value

Product with a high concentration of available chlorine and slow decomposition under UV rays.

F

TRICLOR 90/200



Medical and Surgical Device - Italian Ministry of Health registration No. 18018

UFI Code: AS90-P0T8-F00P-D5JW

Trichloro-s-triazinetriene. 89 – 90% active chlorine. In 200 g tablets. Contains no stearins. Low boric acid content



| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|---|-----------|------------|-----------------|
| 051001 | TRICLOR 90/200 In blister packs - Medical and Surgical Device no. 18018 | JR, 1 KG | 12 | 264 pcs |
| 051005 | TRICLOR 90/200 In blister packs - Medical and Surgical Device no. 18018 | BU, 5 KG | - | 300 kg |
| 051010 | TRICLOR 90/200 In blister packs - Medical and Surgical Device no. 18018 | BU, 10 KG | - | 360 kg |
| 210104025 | TRICLOR 90/200 Not in blister packs - Medical and Surgical Device no. 18018 | CA, 25 KG | - | 600 kg |

F

TRICLOR 90/20



Medical and Surgical Device - Italian Ministry of Health Reg. No. 18018

UFI Code: AS90-P0T8-F00P-D5JW

Trichloro-s-triazine-trione in 20 g loose tablets. 90% available chlorine. Contains no stearins and has low boric acid content



| Code | Description | Package | Pieces/Box | Pallet Quantity |
|--------|--|-----------|------------|-----------------|
| 054027 | TRICLOR 90/20 Not in blister packs - Medical and Surgical Device no. 18018 | CA, 25 KG | - | 600 kg |

F

TRICLOR 90/500



Medical and Surgical Device - Italian Ministry of Health Reg. No. 18018

UFI Code: AS90-P0T8-F00P-D5JW

Trichloro-s-triazine-trione, 500g tablets in blister packs. 90% available chlorine.

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|--------|---|------------|------------|-----------------|
| 052012 | TRICLOR 90/500 In blister packs - Medical and Surgical Device no. 18018 | BU, 20 PCS | - | 720 pcs |

CHLORINE LINE

MULTIFUNCTION - SIX ACTIONS IN ONE

UFI Code: GV90-60GN-S005-2H4Y

Multifunction tablets (chlorine, flocculant, algaecide, coagulant, stabilizer and pH-). Slow dissolving chlorinating agent, with flocculant and algaecidal effect. The product is suitable for placing by hand into skimmers or specific floating dosing units. It is particularly suitable for private swimming pools.



Recommended use

Initial treatment: add 15 g of dichlorine granules (BICLOR 56) per m³ of water. After 2 hours, adjust the water pH so that it is in the range 7.0 to 7.4 using a suitable pH corrector (EXPO pH SUPER or EXPO pH PLUS).

Maintenance treatment: when the water pH has been adjusted, add 1 200 g MULTIFUNCTION tablet per 20 m³ of water every 7 days. Repeat the initial treatment (superchlorination) each time the water is visibly less transparent.

Added value

Six actions in one product. It has a dynamic and efficient effect, instantly improving water properties.

Ideal for

Particularly suitable for small, private swimming pools.

F

MULTIFUNCTION Tablets, 200 g

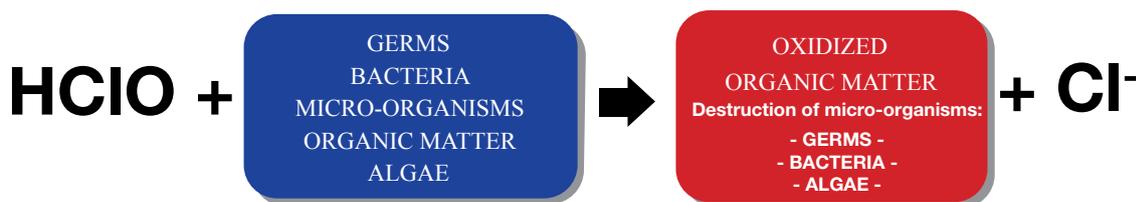
| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|------------------------------|-----------|------------|-----------------|
| 163006002 | MULTIFUNCTION Tablets, 200 g | JR, 1 KG | 12 | 288 pcs |
| 163006004 | MULTIFUNCTION Tablets, 200 g | BU, 5 KG | - | 300 kg |
| 163006006 | MULTIFUNCTION Tablets, 200 g | BU, 10 KG | - | 360 kg |
| 163006008 | MULTIFUNCTION Tablets, 200 g | CA, 25 KG | - | 600 kg |

MULTIFUNCTION Tablets, 20 g

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|-----------------------------|----------|------------|-----------------|
| 163006022 | MULTIFUNCTION Tablets, 20 g | JR, 1 KG | 12 | 264 pcs |

CALCIUM HYPOCHLORITE IS THE MOST SOLD DISINFECTANT WORLDWIDE FOR TREATING SWIMMING POOLS AND DRINKING WATER

Calcium hypochlorite is an excellent disinfectant with a powerful oxidant capacity. It is inexpensive and has been used for many years to disinfect all types of water, including drinking water.



Calcium hypochlorite contains no isocyanuric acid, so it does not increase its level in swimming pool water. For swimming pools that are particularly exposed to the sun, we recommend using ACTIV R 2001 stabilizing activator.

For indoor swimming pools, the consumption is the same as that of organic chlorine, but the water quality is significantly better thanks to a higher Redox potential for the same free chlorine and pH levels.

QUASAR LINE



FOR SANITIZING TREATMENT AND CONTINUOUS CONTROL IN WATER FOR HUMAN CONSUMPTION

Medical and Surgical Device, Italian Ministry of Health registration No. 20121

Case Numbers in Italy: BC-YD047619-24 f4 PT5; BC-UV046942-98 F3 PT5;
BC-WF046910-35 F2 PT2,PT3,PT4; BC-RL046890-22 F1 PT2
UFI code: 8000-X0HT-X00U-NA3A

High-purity calcium hypochlorite with an available active chlorine content of 65–70%



Recommended use

Initial treatment: use a specific dilutor to add 10 to 15 grams of Quasar granules or tablets per cubic metre of water to be treated. Adjust the pH in the range 7.0 to 7.4.

Maintenance treatment: every day, dose enough Quasar to maintain the active free chlorine content in the pool in the range 0.7 to 1.5 ppm, to ensure the pool is properly disinfected.

Ideal for

Quasar is ideal for every kind of swimming pool. Its special anti-sediment formula prevents calcium ions from precipitating and depositing, so it can be used with excellent results in any kind of water. It is designed specifically to dilute the dosage perfectly using DDS LINE dosing units (DDS EVOLUTION, DDS ECO WASH and DDS 3000).

Added value

It is used for daily maintenance and in shock treatments. It does not increase the isocyanuric acid in swimming pool water. It has a high active chlorine content.

The water does not need to be balanced according to Langelier's index after using Quasar because it contains an anti-scale agent.

CHLORINE LINE

F

QUASAR

Medical and Surgical Device

Italian Ministry of Health registration No. 20121

Case Numbers in Italy: BC-YD047619-24 f4 PT5; BC-UV046942-98 F3 PT5;

BC-WF046910-35 F2 PT2,PT3,PT4; BC-RL046890-22 F1 PT2

UFI code: 8000-X0HT-X00U-NA3A

High-purity calcium hypochlorite with an available active chlorine content of 65–70%



QUASAR GRANULES

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|---|-----------|------------|-----------------|
| 210108069 | QUASAR Granules - Medical and Surgical Device no. 20121 | BU, 5 KG | - | 300 kg |
| 210108070 | QUASAR Granules - Medical and Surgical Device no. 20121 | BU, 10 KG | - | 360 kg |
| 210108072 | QUASAR Granules - Medical and Surgical Device no. 20121 | BU, 25 KG | - | 450 kg |

High-purity calcium hypochlorite granules with an available active chlorine content of 65–70%

QUASAR TABLETS

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|--|-----------|------------|-----------------|
| 210108083 | QUASAR tablets, 7 g - Medical and Surgical Device no. 20121 | JR, 1 KG | 12 | 480 pcs |
| 210108078 | QUASAR tablets, 7 g - Medical and Surgical Device no. 20121 | BU, 10 KG | - | 360 kg |
| 210108082 | QUASAR tablets, 7 g - Medical and Surgical Device no. 20121 | BU, 25 KG | - | 450 kg |
| 210108050 | QUASAR tablets, 10 g - Medical and Surgical Device no. 20121 | BU, 25 KG | - | 450 kg |

High-purity calcium hypochlorite tablets with an available active chlorine content of 65–70%

QUASAR STICKS

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|--|-------------|------------|-----------------|
| 210108096 | QUASAR Sticks, 300 g - Medical and Surgical Device no. 20121 | BU, 4.5 KG | - | 270 kg |
| 210108098 | QUASAR Sticks, 300 g - Medical and Surgical Device no. 20121 | BU, 24.9 KG | - | 448.2 kg |

High-purity calcium hypochlorite sticks with an available active chlorine content of 65–70%



Granules



Sticks - **NEW!**



Tablets

BIOQUARK **Medical and Surgical Device**
Italian Ministry of Health registration No. 20149

Case Numbers in Italy: BC-UV046942-98 F3_PT05; BC-WF046910-35 F2_PT02,PT03,PT04;
BC-RL046890-22 F1_PT02
UFI 8000-XOHT-X00U-NA3A

**FOR SANITIZING TREATMENT AND CONTINUOUS CONTROL
IN WATER FOR HUMAN CONSUMPTION**

Calcium hypochlorite with the addition of I Sali della Vita and anti-scale agents

BIOQUARK GRANULES

Ideal for SHOCK treatments

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|--|----------|------------|-----------------|
| 220649002 | BIOQUARK Granules - Medical and Surgical Device no. 20149 | JR, 1 KG | 12 | 480 pcs |

BIOQUARK TABLETS

Ideal for SHOCK treatments

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|--|-----------|------------|-----------------|
| 220648014 | BIOQUARK tablets 20 g - Medical and Surgical Device no. 20149 | BU, 10 KG | - | 360 kg |

CHLORINE LINE

BIOCHLOR



MEDICAL AND SURGICAL
DEVICE

Medical and Surgical Device, Italian Ministry of Health registration No. 19916

Case Numbers in Italy: BC-SU046860-06 F3_PT5 and BC -UF046050-51
F6_PT2_PT3_PT4
UFI Code: S7F0-00PW-D00D-TWV8



Concentrated disinfecting solution titrated in free chlorine intended to disinfect against positive gram and negative gram bacteria, including Legionella spp, in domestic water circuits, in cooling towers, on surfaces, and in the food, animal fodder and livestock industries.

Main uses:

- Disinfection of surfaces or water pipes in systems used in the production, distribution, transport, conservation and consumption of food, animal fodder and drinks to prevent contamination from positive gram and negative gram bacteria, including Legionella spp.
- Chlorine coverage of domestic hot water and cooling tower circuits.

F

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|------------|-------------|----------|------------|-----------------|
| 8602020018 | BIOCHLOR | BO, 1 l | 20 | 300 pcs |
| 860202017 | BIOCHLOR | CA, 10 l | - | 400 l |



OXICLOR 10 EVOLUTION



The product complies with Regulation 528/2012 Biocides.
The product complies with EN 901 Chemicals used for treatment of water intended for human consumption - Sodium hypochlorite

Case numbers in Italy BC-NB046048-51 F2_PT02

UFI code: F9A0-Q0XN-900N-C729

Liquid oxidant based on stabilized chlorine oxides and anti-scale agents. It is ideal for shock treatments in the pool. With anti-scale agent.
After treatment, there is no need for long dechlorination times.
Its special formula prevents deposits from forming in the injection points of dosing pumps.



F

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|------------------------------|----------|------------|-----------------|
| 010606004 | OXICLOR 10 EVOLUTION Liquid* | CA, 5 l | - | 560 l |
| 010606006 | OXICLOR 10 EVOLUTION Liquid | CA, 10 l | - | 400 l |

* Can only be ordered in the pre-season period.

IPOCLOR 30



Case numbers in Italy BC-SU046860-06 F3_PT05 and BC-UF046050-51 F6_PT02, PT03, PT04

UFI Code: UDA0-70N1-M004-1JNC

CHLORINE LIQUID

Liquid sodium hypochlorite Liquid product suitable for treating water in swimming pools and spas, industrial waters, etc.



Recommended use

Initial treatment: add 1 l of product per 10 m³ of water or add 150 g of dichlorine granules (BICLOR 56) per 10 m³ of water.
After 2 hours, adjust the water pH so that it is in the range 7.0 to 7.4.

Repeat the initial treatment (superchlorination) whenever the water is visibly less transparent.

Inject the product using a dosing pump. The filtration device must in operation.

Added value

An effective anti-scale agent prevents the formation of strong scaling at the injection point.

F

Stabilized sodium hypochlorite. Active chlorine 14–16% (per pack). Specific weight 1.2 ± 0.05 g/l

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|--------|--|---------------|------------|-----------------|
| 054011 | IPOCLOR 30 - Sodium hypochlorite liquid. | CA, 10 l | - | 400 l |
| 054000 | IPOCLOR 30 - Sodium hypochlorite liquid. | IBC, 1000 l * | - | - |
| 054020 | IPOCLOR 30 - Sodium hypochlorite liquid. | CA, 20 l ** | - | 480 l |

* For Ipoclor 30 in tanks, a contribution to costs is calculated case by case based on delivery distance and inconvenience.

** Can only be ordered in the pre-season period. * Sold in complete pallets only.

CHLORINE LINE

SPECIAL PRODUCTS

F

ACTIV R 2001

UFI code: 6C10-305C-F005-KQFK

Activator and stabilizer for calcium hypochlorite.



| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|---|-----------|------------|-----------------|
| 220604010 | ACTIV R 2001 - Activator and Stabiliser | BU, 10 KG | - | 360 kg |

F

PULSAR CLEANER

UFI Code: VUJ0-80PK-8006-K8AY

A specific descaler to remove limescale in DDS LINE automatic dosing units (DDS EVOLUTION, DDS ECO WASH, DDS 3000 and DDS MULTIACTION). It neutralizes chlorine vapours that develop during cleaning.



| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|----------------|----------|------------|-----------------|
| 220504011 | PULSAR CLEANER | CA, 10 l | - | 600 l |

RAPID WATER TREATMENT HANDBOOK: Use of Chlorinating Agents

| | BICLOR 56 Sodium dichloroisocyanurate 56%. Chlorine granules. Italian Ministry of Health registration No. 20230. | TRICLOR 90/200 BICLOR 63 Trichloroisocyanuric 90% chlorine tablets. Italian Ministry of Health registration No. 18018. | OXICLOR 10 EVOLUTION Liquid. |
|---------------------|---|--|--|
| What it is used for | For daily chlorination of swimming pools. | For daily chlorination of swimming pools. | For shock treatments to be carried out if a break point treatment is required. |
| How to use it | Either by hand directly in the skimmer, or 5% diluted with dosing pumps or DDS GRANULAR and DDS 3000 GRANULAR dosing units | Keep a 200 g tablet in the skimmer. | Pour directly into the pool. |
| Dosages | 2-3 g per day per cubic metre of water, depending on the organic load. | 1 tablet per 30 m ³ of water. | 50-100 g/m ³ |
| When needed | Every day | Daily | In the event of a bacteriological problem or when there is a high combined chlorine concentration. |
| Precautions for use | Do not mix with acidic products (EXPO pH NEW BLU) or with other kinds of chlorine | Do not mix with acidic products (EXPO pH NEW BLU) or with other kinds of chlorine | Do not mix with acidic products (EXPO pH NEW BLU) or with other kinds of chlorine |

NO-CHLOR LINE

The Barchemicals laboratories have developed a revolutionary system that is simple to use. It is based on active oxygen, for treating swimming pool water without chlorine. Just one product, BIOZONO Ag+ ISDV, has both a strong oxidant based on nascent oxygen and a strong algacide based on poly quaternary ammonium salts and colloidal silver to maximize the effectiveness of the product. Anti-scale agents prevent calcium and magnesium salts from precipitating in the pool.

The buffered pH of BIOZONO Ag+ ISDV stabilizes the pH of your swimming pool, reducing pH corrector consumption. An initial shock treatment with BIOZONO Ag+ ISDV and BIOSAN followed by low daily dosages is enough to keep the water in your pool beautiful and clear throughout the season.

Initial dosage

Indoor Pools:

Initial dose: Add 0.5–1 l of BIOZONO Ag+ ISDV or 1.5–3 l of BIOZONO Ag+ 12% ISDV.

0.5 l of BIOSAN per 10 m³ of water.

Outdoor Pools:

Initial dose: Add 1 l of BIOZONO Ag+ ISDV or 3 l of BIOZONO Ag+ 12% ISDV.

1 l of BIOSAN per 10 m³ of water.

Maintenance doses

Maintenance dose: to maintain the active oxygen level in the tank in the range 10 to 20 ppm with temperatures below 25 °C.

Bring the level to 30 ppm when the AG+ temperature exceeds 25 °C. Dose 1 l of BIOSAN per 10 m³ of water once a month.

BIOZONO Ag+ ISDV (35%)

UFI Code: 7TA0-S031-400M-A8JP

A special formulation containing silver ions and anti-scale agents to develop active oxygen and hydroxyl ions and, containing poly quaternary ammonium salts to help keep bathing water clear and clean, without any opalescence due to precipitation of mineral salts and organic substances in the water and on the walls. It has a strong anti-corrosion effect on metal structures. **For professional use only.**



| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|--------------------|----------|--------|-----------------|
| 220642006 | BIOZONO Ag+ - ISDV | CA, 10 l | - | 400 l |

Product for professional use

BIOZONO Ag+ 12% - ISDV

UFI Code: JNA0-R0Q7-H00M-0KDJ

| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|------------------------|----------|--------|-----------------|
| 220642036 | BIOZONO Ag+ 12% - ISDV | CA, 10 l | - | 400 l |

Product for professional and domestic use in accordance with European Regulation (EU) 2019/1148

NO-CHLOR LINE

F

BIOZONO (35%)

UFI Code: 22N0-E0MW-7002-S4GN

NEW!

Oxidant product based on stabilized hydrogen peroxide for treating water in swimming pools and hot tubs.

It has anti-scale agents to prevent limescale formation, as well as a powerful anti-corrosion action in metal pipes.

Product compliant with EN 902/2016 "Chemicals used for treatment of water intended for human consumption – Hydrogen peroxide".



| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|-------------|----------|--------|-----------------|
| 220640008 | BIOZONO* | CA, 20 l | - | 480 l |

* Sold in complete pallets only

F

BIOSAN

UFI Code: TE30-70QV-T001-FWF4

Prevents and combats algae. It is a concentrated product.

Acting in synergy with chlorine/oxygen/bromine, its coagulating power on both inorganic cations and organic substances ensures that it keeps the swimming pool water crystal-clear and clean. It is based on poly quaternary ammonium salts. **Non-foaming.**



| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|---------------|----------|--------|-----------------|
| 220614005 | BIOSAN - ISDV | CA, 5 l | - | 560 l |
| 220614011 | BIOSAN - ISDV | CA, 10 l | - | 600 l |

BIO OXI LINE

BIO-OXI LIQUID

UFI Code: UED0-D06J-Y000-WRMW

Based on bis (peroxymonosulphate)bis(sulphate) dipentapotassium.

BIO-OXI TABLETS

UFI Code: H8D0-C0TS-C001-K2FS

Based on bis (peroxymonosulphate)bis(sulphate) dipentapotassium.

BIO-OXI GRANULES

UFI Code: K5D0-V04D-100H-WQVQ

Based on bis (peroxymonosulphate)bis(sulphate) dipentapotassium.



It is an oxidizing agent that is ideal for sanitizing water in swimming pools or hot tubs. It develops active oxygen.

Recommended use

Initial dose: Add five 100g BIO OXI TABLETS in the skimmer per 10 m³ of water.

Maintenance dose: add 2 100 g BIO OXI TABLETS in the skimmer per 10 m³ of water once a week.

Initial dose: Put 10 to 50 g of BIO-OXI Granules in the tank per m³ of water to be treated.

Maintenance dose: 20 g of BIO-OXI Granules per m³ of water once a week.

Ideal for

Swimming pools where the bathers are particularly sensitive to chlorine.

Added value

No chlorine smell, crystal-clear water. It does not develop chloramine.

F

BIO-OXI - A special formulation based on stabilized peroxide.

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|---------------------------------|------------|------------|-----------------|
| 010610006 | BIO-OXI Liquid - ISDV | CA, 10 l | - | 400 l |
| 220642025 | BIO-OXI Tablets, 100 g - ISDV * | BU, 1 KG * | 20 | - |
| 220642026 | BIO-OXI Tablets, 100 g - ISDV | BU, 6 KG | - | 300 kg |
| 010610026 | BIO-OXI Granules - ISDV | BU, 10 KG | - | 360 kg |

*while stocks last

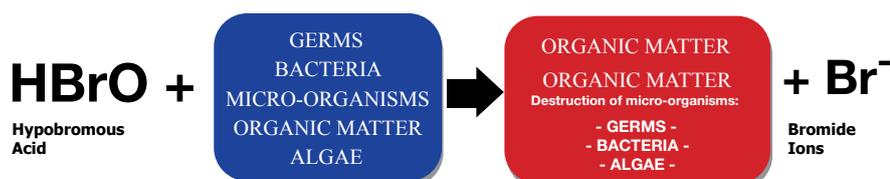


NO-CHLOR LINE

BROMINE

Bromine is a powerful oxidant, ideal for disinfecting the swimming pool water with the same effectiveness as chlorine.

Unlike chlorine, however, it does not give off an unpleasant smell, nor does it irritate the mucosa and is much more tolerant to temperature increases and pH variations. It is therefore suitable for indoor swimming pools, heat pumps and spas.



ADVANTAGES

- POWERFUL OXIDANT POWER.
- SIGNIFICANT TOLERANCE TO pH (UP TO 7.5) AND DOES NOT LOSE ITS EFFECTIVENESS EVEN WHEN THERE ARE NITROGEN COMPOUNDS.
- EYES AND MUCOSA ARE LESS IRRITATED.
- DOES NOT GIVE OFF AN UNPLEASANT SMELL.
- LESS CORROSIVE THAN CHLORINE (LESS VOLATILE, ESPECIALLY AT HIGH TEMPERATURES).
- EASY TO MAINTAIN.

Hypobromous acid (HBrO) reacts to form bromoamine.

Unlike chloramines, bromoamines are disinfectant and work in a similar manner to hypobromous acid. Hypobromous acid is a strong oxidant and degrades into bromide ions once it has finished acting.

BROMOFINA LINE

UFI Code: 2KC0-A09K-W002-9AT8

20g slow dissolving bromine tablets for treating water in swimming pools and spas. Bromine is a powerful oxidant that is just as effective as chlorine.



Recommended use

Once the pH is correct, fill the dosing unit and set it to obtain the desired residual bromine level.

The recommended residual bromine levels are as follows:

- Private Swimming Pools 1.0 – 3.0 ppm
- Private Spas 2.0 – 4.0 ppm
- Public Spas 4.0 – 6.0 ppm

This level can easily be measured with the bromine and pH analysis kit.

Ideal for

For indoor swimming pools and private spas.

Added value

It does not give off an unpleasant smell nor does it irritate the mucosa, and is more stable when the temperature increases and the pH is greater than 7.2.

BROMOFINA - Solid oxidant tablets for swimming pools and spas.

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|------------|-----------------------------------|----------|------------|-----------------|
| 0121056047 | BROMOFINA - Oxidant tablets, 20 g | JR, 1 KG | 12 | 264 kg |
| 01010203 | BROMOFINA - Oxidant tablets, 20 g | BU, 5 KG | - | 225 kg |

SWIMMING POOL TREATMENT KIT

IDEAL FOR SMALL POOLS

The Barchemicals laboratories have developed a ready-to-use kit intended for customers who, after purchasing a small swimming pool or above ground pool, want to be sure that the water can be treated and disinfected easily and in complete safety. So, three kits were created, one based on the use of chlorine, one on calcium hypochlorite and one on active oxygen.

- **CALCIUM HYPOCHLORITE KIT - QUASAR**

Composed of:

EXPO pH SUPER GRANULES

Acid pH corrector granules. It is buffered and free from chlorides. Product for professional and domestic use.

It stops water with a pH that is too high irritating the eyes, mucosa and skin and prevents calcium precipitation and limescale.

QUASAR - Tablets, 7 g - Medical and Surgical Device no. 20121 - JR, 1 KG

For sanitizing treatment and continuous control in water for human consumption.

High-purity calcium hypochlorite tablets with an available active chlorine content of 65–70%.

Calcium hypochlorite contains no isocyanuric acid, so it does not increase its level in swimming pool water.

The product is suitable for placing by hand into skimmers or via specific floating dosing units.

ADDED VALUE

It is used for daily maintenance and in shock treatments. It does not increase the isocyanuric acid in swimming pool water. It has a high active chlorine content.

The water does not need to be balanced according to Langelier's index after using Quasar because it contains an anti-scale agent.

EXPOSAN C 91

Clarifying and bluing formulation to control and prevent algae. Non-foaming.

It prevents and combats algae formation.

- **CHLORINE KIT**

Composed of:

EXPO pH SUPER GRANULES

Acid pH corrector granules. It is buffered and free from chlorides. Product for professional and domestic use.

It stops water with a pH that is too high irritating the eyes, mucosa and skin and prevents calcium precipitation and limescale.

MULTIFUNZIONE - Tablets, 200 g

Multi-action tablets (chlorine, flocculant, algaecide, coagulant, stabilizer and pH-). Slow dissolving chlorinating agent, with flocculant and algaecide.

The product is suitable for placing by hand into skimmers or specific floating dosing units. It is particularly suitable for private swimming pools.

Six actions in one product. It has a dynamic and efficient effect, instantly improving water properties.

EXPOSAN C 91

Clarifying and bluing formulation to control and prevent algae. Non-foaming.

It prevents and combats algae formation.

PRIVATE SWIMMING POOL KIT

• BIOZONO OXYGEN Ag+ 12% - ISDV KIT

Composed of:

BIOZONO Ag+ 12%

A special formulation containing silver ions and anti-scale agents to develop active oxygen and hydroxyl ions and, containing poly quaternary ammonium salts to help keep bathing water clear and clean, without any opalescence due to precipitation of mineral salts and organic substances in the water and on the walls.

It has a strong anti-corrosion effect on metal structures (product for professional and domestic use in accordance with European Regulation (EU) 2019/1148)

EXPO pH SUPER GRANULES

Acid pH corrector granules. It is buffered and free from chlorides. Product for professional and domestic use.

It stops water with a pH that is too high irritating the eyes, mucosa and skin and prevents calcium precipitation and limescale.

BIOSAN – ISDV

Prevents and combats algae. It is a concentrated product. Acting in synergy with chlorine/oxygen/bromine, its coagulating power on both inorganic cations and organic substances ensures that it keeps the swimming pool water crystal-clear and clean. It is based on poly quaternary ammonium salts. **Non-foaming.**



Indicative photograph

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| Code | Description |
|-----------|--|
| 220658103 | <p>CALCIUM HYPOCHLORITE KIT FOR SWIMMING POOLS - QUASAR:</p> <ul style="list-style-type: none"> • 1 EXPO pH SUPER GRANULES - JR, 1.5 KG • 1 QUASAR tablets, 7 g - Medical and Surgical Device no. 20121 - JR, 1 KG • 2 EXPOSAN C 91 – BO, 0.5 l |
| 220658100 | <p>CHLORINE KIT FOR PRIVATE SWIMMING POOLS:</p> <ul style="list-style-type: none"> • 1 EXPO pH SUPER GRANULES - JR, 1.5 KG • 1 MULTIFUNZIONE - Tablets 200 g - JR, 1 KG • 2 EXPOSAN C 91 - 0.5 l BO |
| 220658106 | <p>OXYGEN KIT FOR PRIVATE SWIMMING POOLS - BIOZONO Ag+ 12%:</p> <ul style="list-style-type: none"> • 3 BIOZONO Ag+ 12% - ISDV - BO, 0.5 l • 1 EXPO pH SUPER GRANULES - JR, 1.5 KG • 1 BIOSAN - ISDV - BO, 0.5 l |



FLOCCULANTS

FLOCCULANTS

The use of disinfectants is often not enough to produce transparent, crystal-clear water. Using flocculants encourages and facilitates the filtration process by making very small particles filterable when they otherwise would not be. Using a flocculant therefore helps to make the water crystal-clear, transparent and bright.

The swimming pool water frequently loses its transparency and appears cloudy as a result of:

- Algae and bacteria
- Calcium and magnesium salt precipitation
- Dust carried by the air or bathers
- Oxidation of iron and manganese salts
- Organic and colloidal substances

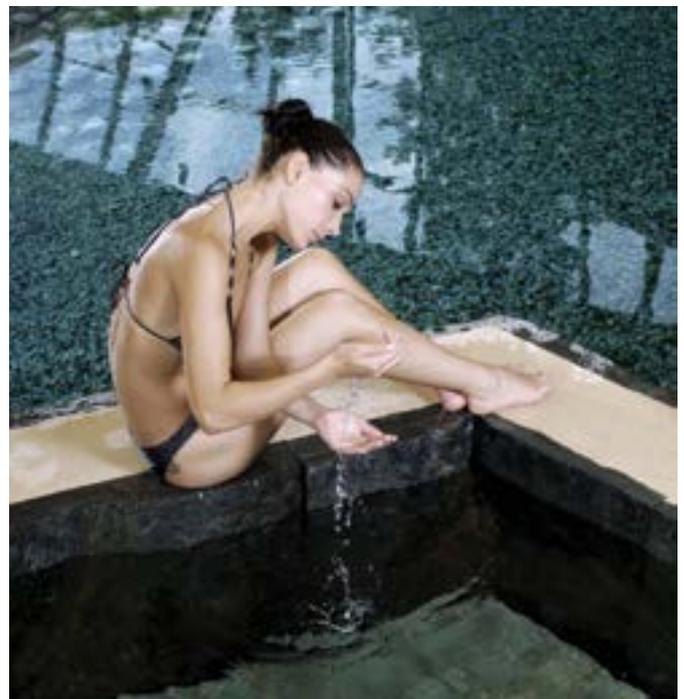
In most cases, the particles added to the water are extremely small or micro-dispersed and do not become large enough to be captured by filtration systems. Flocculants improve the capacity of particles to join together and form larger, more filterable aggregates. Colloids normally tend to reject each other due to the electrostatic loads

found on their surfaces. Flocculants neutralize these loads, allowing aggregates to form, which can then be captured by the filter.

Flocculants are divided into two categories:

- **ORGANIC** – these are made up of polymer molecules that act as coagulants. Ideal for rapid filters and slow filters
- **INORGANIC** – these are made up of water-soluble salts of transition metals. Ideal for slow filters.

A complete line of products to resolve the problem of cloudy water



HOW FLOCCULANTS ARE USED

Inject it into the recirculation line

Use a dosing pump to inject 0.5 ml of flocculant per cubic meter of recirculation flow, before to the filter inlet or in the balance tank.

In the Skimmer

Put the required number of flocculant tablets (from 1 to 3 tablets per 100 cubic metres) or amount of liquid (0.5–1 l/m³) directly into the skimmers.

Flocculants are **not** used for diatomaceous earth, bag or cartridge filters, while they are suitable for sand and glass filters.

We do not recommend using flocculants directly in the pool!

FLOCCULANTS

FLOC SUPER

UFI Code: 4940-90MU-V000-2A85

Flocculant liquid based on inorganic polyelectrolytes to eliminate iron, manganese and colloids from the water. For quartz sand, glass sand and Biovitrum (Ag+, Ti, spheres) filters; it is particularly suitable for "slow" filtration systems.



Recommended use

Inject into the pipes using a suitable dosing pump. Do not use this product in swimming pools with diatomaceous earth or cartridge filtration.

Ideal for

Swimming pools with slow filters.

Added value

Effective in very cloudy water. It improves the bacteriological quality of water and, therefore reduces disinfectant consumption.

F

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|--------|---------------------|----------|------------|-----------------|
| 064011 | FLOC SUPER - Liquid | CA, 10 l | - | 400 l |

FLOC SUPER PE

UFI Code: 2PD0-W08R-V00G-VSD3

Flocculant liquid based on organic polyelectrolytes to eliminate iron, manganese and colloids from the water. For quartz sand, ground glass and Biovitrum (Ag+, Ti, spheres) filters; it is suitable for both slow and fast filters.

TOP PRODUCT!



Recommended use

Inject into the pipes using a suitable dosing pump. Do not use this product in swimming pools with diatomaceous earth or cartridge filtration.

Ideal for

Swimming pools with slow and fast filters.

Added value

Effective in very cloudy water. It improves the bacteriological quality of water and, therefore reduces disinfectant consumption.

F

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|--------|------------------------|----------|------------|-----------------|
| 065001 | FLOC SUPER PE - Liquid | B0, 1 l | 20 | 300 pcs |
| 065011 | FLOC SUPER PE - Liquid | CA, 10 l | - | 600 l |

FLOCCULANTS

FLOCCULANT TABLETS

Special, slow dissolving flocculant tablets. By forming large flakes, it eliminates all organic pollutants in from swimming pool water. Made up of Inorganic and organic flocculants.

Recommended use

Insert the tablets needed into the skimmer baskets after washing the filtration device.

- For 10 to 50 m³ swimming pools: 1 tablet every 10 days.
- For 50 to 100 m³ swimming pools: 2 tablets every 10 days.
- For 100 to 150 m³ swimming pools: 3 tablets every 10 days.

Ideal for

Swimming pools with slow filters when the aim is to achieve a powerful flocculant effect in the filter.

Added value

The Floc Super Tablets form flocculate in the water at the filter inlet. This flocculate settles on the filter medium surfaces and captures all the particles suspended in the swimming pool water.



FLOCCULANT TABLETS

FLOC SUPER TABLETS

UFI Code: UVD0-W0NJ-G00G-6FJ7

FLOC SUPER FELT

UFI Code: CXD0-E0AX-S00Y-VT49

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|-------------------------------------|----------|------------|-----------------|
| 212006015 | FLOC SUPER TABLETS - Tablets, 100 g | BU, 5 KG | - | 300 kg |
| 212006024 | FLOC SUPER FELT - Jar, 1 kg | JR, 1 KG | 12 | 288 |

These doses are indicative and can be changed to suit the characteristics of your swimming pool.

It is advisable to add the chemical in the evening, and always when there are no bathers.

The water in the swimming pool loses its transparency on a regular basis due to the presence of algae, calcium and magnesium salt precipitations, dust, oxidized iron and manganese salts etc. These particles are often too small to be captured by the filter, so it is essential to use a flocculant. The aim of the flocculant is to promote aggregation of dispersed particles so that they can be filtered effectively to make the water transparent again.



ALGAE PREVENTION

ALGICIDES

The use of an algaecide prevents algae from forming on the walls and bottom of the swimming pool, thus hindering greenish, bluish and black staining, depending on the kind of algae.

Algae constitute the most common problem in swimming pool water, as well as being the most visibly evident. Algae themselves do not normally pose any health risk, but during reproduction they release substances that become a source of nourishment for unwanted, harmful bacteria and other micro-organisms, thus encouraging them to proliferate.

WHAT ALGAE ARE

Algae are autotrophic vegetable organisms whose spores can also be carried through the air.

Autotrophs grow thanks to mineral salts such as phosphates and carbon dioxide, and light. They synthesize carbohydrates (organic matter) and release oxygen through the process of photosynthesis.

There are more than 20,000 species of algae, only some of which are found in swimming pool water. As soon as the level of disinfectant drops too low, the algae start to take hold and multiply. On a hot day, it just takes a few hours for an algae problem to develop from the spores already in the swimming pool.

Green algae

These are the most common types of algae, and can float or cling to swimming pool walls. They grow quickly and can make the swimming pool cloudy within 24 hours. To eliminate them, high concentrations (30/40 ppm) of chlorine must be dosed together with an algaecide in doses greater than 10 ppm. The ideal product is **EXPOSAN C 91**.

Yellow algae

These generally appear in shaded areas of the swimming pool in the form of yellowish marks. Once they have taken hold, they can withstand up to 3–5 ppm of free chlorine. However, they are easily eliminated by using our **EXPOSAN RB1**.

Black algae

These form dark marks or black spots from 1 to 3 cm in diameter, and cling firmly to swimming pool surfaces. They grow slowly and are extremely resistant to chlorine, but can be eliminated and prevented by the combined use of our **BLU DELUXE** with chlorination.

Algae themselves do not pose any health risk, but during reproduction they release substances that become a source of nourishment for unwanted, harmful bacteria and other micro-organisms.



SYNERGISTIC ACTION

The combined action of chlorine and algaecide has a greater algaecidal effect than using these products individually with the same concentrations.

Algaecides are divided into two categories: specific algaecides and algaecides based on molecules that can have a bactericidal action.

A feature of all our algaecides is that they are non-foaming, and therefore have no contraindications in any kind of pool. All our algaecidal products can also be used with cartridge or diatomaceous earth filters.

INSTRUCTIONS FOR USE

Prior to filling the swimming pool, after cleaning the walls of the pool properly with specific cleaners, we recommend applying a concentrated algaecide (EXPOSAN RB1) to the pool walls. After this, the pool can be filled with superchlorination and the addition of another algaecide in order to meet the recommended dose. We recommend not using EXPOSAN C91, TOP GUN or BLU DELUXE directly on pool walls made of fibreglass or on liners. Use only EXPOSAN RB1 in these cases.

ALGAE PREVENTION

EXPOSAN C91

UFI Code: SFA0-R0AE-W00M-PW7E

Clarifying and bluing formulation to control and prevent algae. Non-foaming. It prevents and combats algae formation.

DO NOT USE DIRECTLY ON SWIMMING POOL WALLS MADE OF LINER WHEN THE POOL IS EMPTY.



Recommended use

When the swimming pool is put into use, add 5 l of algacide directly in the pool. Alternatively, add 10 l of product when algae appears. Thereafter, add 2 l of product per 100 m³ of water once every 2 weeks.

Added value

Highly effective against the proliferation of algae.

Ideal for

Any type of swimming pool treated with chlorine.

F

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|--------|----------------------|----------|------------|-----------------|
| 071001 | EXPOSAN C91 - Liquid | BO, 1 l | 20 | 300 pcs |
| 071006 | EXPOSAN C91 - Liquid | CA, 5 l | - | 560 l |
| 071012 | EXPOSAN C91 - Liquid | CA, 10 l | - | 600 l |

EXPOSAN RB1

UFI Code: 1Q40-U02U-D00G-C163

Formulation to control and prevent algae. It is broad-spectrum, non-foaming and active even against the most persistent algae. It has a clarifying and coagulant effect.

It can also be used on swimming pool walls prior to filling as a prevention measure.

It is based on poly quaternary ammonium salts. It does not stain.



F

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|--------|----------------------|----------|------------|-----------------|
| 068009 | EXPOSAN RB1 - Liquid | CA, 5 l | - | 560 l |
| 068011 | EXPOSAN RB1 - Liquid | CA, 10 l | - | 600 l |

TOP GUN

UFI Code: JWA0-80SE-F003-0M4R

Concentrated formulation to prevent algae. Non-foaming, multiple-action:

- Prevents and combats algae
- Descaling effect
- Clarifying and flocculant effect

It coagulates organic matter, making it easy for the filters to retain it.

It prevents limescale and rust marks. It prevents and combats even the most resistant kinds of algae formation. Thanks to its special formulation, it works in synergy with chlorine to keep the swimming pool water disinfected, allowing a low chlorine concentration of 0.8–1.0 ppm to be used.



F

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|------------------|----------|------------|-----------------|
| 160239001 | TOP GUN - Liquid | BO, 1 l | 20 | 300 l |
| 160239006 | TOP GUN - Liquid | CA, 5 l | - | 560 l |
| 160239011 | TOP GUN - Liquid | CA, 10 l | - | 600 l |

ALGAE PREVENTION

BLU DELUXE

UFI Code: 7QA0-80DM-U003-PWYM

This is a special formulation to control and prevent algae at a very high concentration. It is particularly suitable for very deep summer pools and very aggressive algae attacks, including black algae. We recommend using it in combination with OXICLOR 10 EVOLUTION for shock treatment.

It is non-foaming with a bluing and clarifying effect.

DO NOT USE DIRECTLY ON SWIMMING POOL WALLS MADE OF LINER WHEN THE POOL IS EMPTY.



F

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|--------|---------------------|----------|------------|-----------------|
| 071S05 | BLU DELUXE - Liquid | CA, 5 l | - | 560 l |
| 071S11 | BLU DELUXE - Liquid | CA, 10 l | - | 600 l |

RAPID WATER TREATMENT HANDBOOK: Use of algaecides

| | EXPOSAN C91 Non-foaming algaecide with clarifying and bluing effect. | EXPOSAN RB1 Non-foaming algaecide based on poly quaternary ammonium. | TOP GUN Five-action non-foaming algaecide. |
|---------------------|---|---|---|
| What it is used for | It prevents and combats algae formation. | It prevents and combats algae formation. It helps the chlorine keep the water crystal-clear. It is ideal for starting the pool. | It prevents algae formation and helps the chlorine keep the water clean. |
| How to use it | By hand, directly in the pool. | By hand, directly in the pool. | By hand, directly in the pool. |
| Dosages | Initial treatment 50 – 100 g/m ³ . Maintenance 20–30 g/m ³ per week. | Initial treatment 50 – 100 g/m ³ . Maintenance 20–30 g/m ³ per week. | Initial treatment 30 – 50 g/m ³ . Maintenance 10 g/m ³ per week. |
| When needed | Weekly | Weekly | Weekly |
| Precautions for use | Do not pass the UNDILUTED product over the walls of a fibreglass swimming pool and pools with a LINER | - | Do not pass the UNDILUTED product over the walls of a fibreglass swimming pool and pools with a LINER |



pH CORRECTORS

pH CORRECTORS

Water must have the correct pH to ensure disinfectants are effective, so that your swimming pool is clear and disinfected to protect the health of those using it.

The pH is expressed on a logarithmic scale of from 0 (high acidity) to 14 (high basicity).

Furthermore, a correct pH prevents limescale formation and makes the water less aggressive on the skin.

If the pH is lower than 7, the water is acidic, while a higher level is basic. When the pH is 7, we say that the water is neutral.

It is essential to check the pH every day and adjust it accordingly.

If possible, use an in-line automatic control and dosing system.

OUR PLUSES

Barchemicals pH correctors are formulated using very pure raw materials, have a buffering effect and are free from heavy metals.

Barchemicals Group offers a complete range of products to regulate the pH and keep it constant to prevent it from fluctuating continuously.

The ideal pH level should always be in the range 7.0 to 7.4.



In order to disinfect the swimming pool water properly, the pH must be kept in the range 7.0 to 7.4.

pH Imbalances lead to greater product consumption, cloudy water, and eye and mucosa irritation in bathers.

ALL IN ONE

NEW!

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ALL IN ONE is a multifunction product for pool management.

A single product with multiple properties:

- **Acid pH corrector**
- **Prevents algal proliferation**
- **Suitable for domestic use (pursuant to Regulation (EU) 2019/1148)**
- **Savings of over 30% compared to competing products**
- **Calcium ion sequestrant**
- **Carbonate and bicarbonate sequestrant**
- **Protects pipes**
- **Combats biofilm formation**



The POOLS and ELETTRIO versions differ in their intended uses:

- **POOLS** is for all conventionally chlorinated swimming pools
- **ELETTRIO** is for pools treated with electrolysis and No Chlor systems, with an enhanced action in terms of specific sequestrants and preservatives to ensure that the electrolytic cells function

| Code | Description | Package | Pieces | Pallet quantity |
|-----------|---------------------|----------|--------|-----------------|
| 220691006 | ALL IN ONE ELETTRIO | CA, 10 l | - | 400 l |
| 220690006 | ALL IN ONE POOLS | CA, 10 l | - | 400 l |



ALL IN ONE

F

ALL IN ONE POOLS

UFI Code: YVP0-2047-N00F-P9R0

TOP
PRODUCT!

Properties

The special formulation of **ALL IN ONE pools** ensures a 30% saving compared to common sulphur-based correctors for domestic use. It stabilizes the pH of the swimming pool water.

It prevents algae proliferation and precipitation of calcium, iron and magnesium salts, and contains inhibitors to protect metal pipes.

Use and doses

For water with high alkalinity: from 800 to 1,200 cc of **ALL IN ONE pools** per 100 m² of water to lower the pH by 0.1 (8–12 cc/m²)

For water with medium alkalinity: from 400 to 600 cc of **ALL IN ONE pools** per 100 m² of water to lower the pH by 0.1 (4–6 cc/m²)



| Code | Description | Package | Pieces | Pallet quantity |
|-----------|------------------|----------|--------|-----------------|
| 220690006 | ALL IN ONE POOLS | CA, 10 l | - | 400 l |

F

ALL IN ONE ELETTR0

UFI Code: 0YPO-J0TM-X00X-ANA2

TOP
PRODUCT!

Properties

The special formulation of **ALL IN ONE elettro** ensures a 30% saving compared to common sulphur-based correctors for domestic use. It stabilizes the pH of the swimming pool water, and prevents scaling on the electrodes of the electrolysis systems, extending their service life.

It prevents algae proliferation and precipitation of calcium, iron and magnesium salts, and contains inhibitors to protect metal pipes.

Use and doses

For water with high alkalinity: from 800 to 1,200 cc of **ALL IN ONE pools** per 100 m² of water to lower the pH by 0.1 (8–12 cc/m²)

For water with medium alkalinity: from 400 to 600 cc of **ALL IN ONE pools** per 100 m² of water to lower the pH by 0.1 (4–6 cc/m²)



| Code | Description | Package | Pieces | Pallet quantity |
|-----------|--------------------|----------|--------|-----------------|
| 220691006 | ALL IN ONE ELETTR0 | CA, 10 l | - | 400 l |

pH CORRECTORS

BIOACID

UFI Code: 5670-H03C-800T-JX2Y

Acid pH corrector based on buffered inorganic acids. It is free from chlorides.



Recommended use

Add 300/400 cc of product to lower the pH by 0.1 in 100 m³ of water, depending on the alkalinity of the water. It is a product formulated to be dosed into swimming pool water using automatic pH regulation and control devices, or even directly by hand into the pool. Avoid eye or skin contact.

Ideal for

Suitable for dosing with a dosing pump or manually, and for particularly hard water.

Added value

A single product contains the pH corrector, biocide, descaler and coagulant. Powerful buffer action.

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BIOACID – pH corrector with buffering effect. "I SALI DELLA VITA" Line

| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|----------------|---------------|--------|-----------------|
| 220616005 | BIOACID - ISDV | CA, 5 l | - | 560 l |
| 220616010 | BIOACID - ISDV | CA, 10 l | - | 400 l |
| 220616000 | BIOACID - ISDV | IBC, 1000 l * | - | - |

Product for professional use.

* For Bioacid in tanks, a contribution to costs is calculated case by case based on delivery distance and inconvenience.

BIOACID SPECIAL <15%

UFI Code: D300-F077-800A-ANPN

Acid pH corrector for swimming pools based on buffered inorganic acids. It is free from chlorides.



Recommended use

For water with high alkalinity: 1200 to 1800 cc of BIOACID SPECIAL per 100 m³ of water to lower the pH by 0.1.

For water with medium alkalinity: 600 to 900 cc of BIOACID SPECIAL per 100 m³ of water to lower the pH by 0.1.

F

| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|-----------------------------|----------|--------|-----------------|
| 220616040 | BIOACID SPECIAL <15% - ISDV | CA, 10 l | - | 400 l |

Product for professional and domestic use in accordance with European Regulation (EU) 2019/1148

pH CORRECTORS

EXPO pH NEW BLU BUFFERED

UFI Code: GH60-F0K5-T00V-86EF

Acid pH corrector liquid with a bluing and buffering effect.

It is free from chlorides, does not smell and does not give off harmful fumes. **Specific weight 1.4 ± 0.05 g/l.**

Recommended use

Add 400/600 cc of product to lower the pH by 0.1 in 100 m³ of water, depending on the alkalinity of the water. It is a product formulated to be dosed into swimming pool water using automatic pH regulation and control devices, or even directly by hand. Avoid eye or skin contact.

Ideal for

Suitable for dosing with a dosing pump or by hand.

Added value

It prevents water with a pH that is too high from irritating the eyes, mucosa and skin, prevents limescale and enhances the effectiveness of chlorine.

F

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|-------------------------------------|----------------|------------|-----------------|
| 220404002 | EXPO pH NEW BLU - Liquid - Buffered | CA, 10 l | - | 400 l |
| 220404003 | EXPO pH NEW BLU - Liquid - Buffered | CA, 20 l * | - | 480 l |
| 220404004 | EXPO pH NEW BLU - Liquid - Buffered | IBC, 1000 l ** | - | - |

Product for professional use.

* Can only be ordered in the pre-season period. * Sold in complete pallets only.

** For Expo pH New Blu in tanks, a contribution to costs is calculated case by case based on delivery distance and inconvenience.

EXPO pH SPECIAL < 15%

UFI Code: D300-F077-800A-ANPD

Acid pH corrector liquid with a bluing and buffering effect. The buffering effect and absence of chlorides make EXPO pH SPECIAL the ideal corrector for domestic swimming pools.



Recommended use

For water with high alkalinity: 1200 to 1800 cc of EXPO pH SPECIAL per 100 m³ of water to lower the pH by 0.1 (12–18 cc/m³).

For water with medium alkalinity: 600 to 900 cc of EXPO pH SPECIAL per 100 m³ of water to lower the pH by 0.1 (6–9 cc/m³).

F

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|--------|-----------------|----------|------------|-----------------|
| 061S10 | EXPO pH SPECIAL | CA, 10 l | - | 400 l |

Product for professional and domestic use in accordance with European Regulation (EU) 2019/1148

pH CORRECTORS

SEQ 06

UFI Code: A2F0-00A3-S00E-G7Q4

Mix of acids and sequestrants for DDS, DOSAKLOR and FEEDER dosing units. It is a special sequestrant for heavy metals in swimming pools. It is a chemical additive inhibitor and dispersant to prevent limescale caused by calcium hypochlorite on injectors and dosing units. It acts as sequestrant and dispersant for calcium and magnesium ions in the water, but also for iron and manganese ions.

It is suitable for adding to very hard water that is rich in salts prior to chlorination.

It is ideal for salt sterilizers.

Product for professional use



F

| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|-----------------|----------|--------|-----------------|
| 180398013 | SEQ 06 - Liquid | CA, 10 l | - | 400 l |

EXPO pH SUPER GRANULES

UFI Code: P4C0-S0UM-C00K-YMVX

Acid pH corrector granules. It is buffered and free from chlorides.

Product for professional and domestic use.



Recommended use

When there are no bathers in the swimming pool, pour the required dose of product into a container with water, and then disperse it in the pool (dosage of 250–300 g per 100 m³ to lower the pH by 0.1). Warning: avoid adding the product to the skimmer, if you do not have an automatic dosing system, it is best to add the product directly into the pool. Avoid eye or skin contact.

Added value

It stops water with a pH that is too high irritating the eyes, mucosa and skin and prevents calcium precipitation and limescale.

Ideal for

For every kind of swimming pool.

F

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|---------|------------------------|------------|------------|-----------------|
| 062001 | EXPO pH SUPER granules | JR, 1.5 KG | 12 | 264 pcs |
| 062005 | EXPO pH SUPER granules | BU, 5 KG | - | 480 kg |
| 062010 | EXPO pH SUPER granules | BU, 10 KG | - | 450 kg |
| 0620026 | EXPO pH SUPER granules | SA, 25 KG | - | 1000 kg |
| 062025 | EXPO pH SUPER granules | BU, 25 KG | - | 450 kg |

pH CORRECTORS

EXPO pH PLUS

Basic pH corrector granules for swimming pools. It is buffered and free from chlorides. It increases the alkalinity of the water. Product for professional and domestic use.



Recommended use

When there are no bathers in the swimming pool, pour the required dose of product into a container with water, and then disperse it in the pool (dosage 200–300 ml of EXPO pH PLUS LIQUID or 200–300 g of EXPO pH PLUS GRANULES per 100 m³ to lower the pH by 0.1). Avoid eye or skin contact.

Added value

It prevents water with a pH that is too low from causing irritation to the skin and eyes of bathers, and also prevents corrosion of metal parts of the swimming pool and parts that lead to excessive disinfectant consumption.

Ideal for

For every kind of swimming pool.

F EXPO pH PLUS GRANULES

UFI Code: 42C0-9057-2003-A99V

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|--------|-----------------------|------------|------------|-----------------|
| 063020 | EXPO pH PLUS granules | JR, 0.5 KG | 12 | 264 pcs |
| 063010 | EXPO pH PLUS granules | BU, 5 KG | - | 480 kg |
| 063025 | EXPO pH PLUS granules | BU, 10 KG | - | 240 kg |

F EXPO pH PLUS LIQUID

UFI Code: 14E0-E0QR-D00Y-6G9E

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|---------|---------------------|----------|------------|-----------------|
| 0630016 | EXPO pH PLUS Liquid | CA, 10 l | - | 400 l |

BLU ALC PLUS

Additive in granules to increase water alkalinity. The total alkalinity indicates the amount of alkaline components (carbonates, bicarbonates and hydroxides) dissolved in the swimming pool water. Alkalinity plays an important role in regulating pH variations (buffering effect). The ideal prescribed alkalinity is expressed as 150 ppm of CaCO₃.

Recommended use

Add 1.8 kg of product to increase the total alkalinity by 10 ppm in 100 m³ of water. This is an approximate dose.

Added value

This prevents the alkalinity from becoming so low that it is hard to stabilize pH at optimal levels.

Ideal for

For every kind of swimming pool.

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|-----------------------|-----------|------------|-----------------|
| 010402010 | BLU ALC PLUS granules | BU, 10 KG | - | 360 kg |

RAPID WATER TREATMENT HANDBOOK: Use of pH correctors

| | EXPO pH NEW BLU Buffered Acid corrector of liquid pH. Buffered. Bluing agent. | EXPO pH SPECIAL Acid corrector of liquid pH. For domestic use. | EXPO pH SUPER GRANULES Acid pH corrector granules. |
|----------------------------|---|---|---|
| What it is used for | To lower the pH in water with a tendency to increase. | To lower the pH in water with a tendency to increase. | To lower the pH in water with a tendency to increase. |
| How to use it | Poured directly into the pool or dosed with an electronic dosing pump. | Poured directly into the pool or dosed with a dosing pump after dilution. | Poured directly into the pool or dosed with a dosing pump after dilution. |
| Dosages | 40 ml/10 m ³ to lower the pH by 0.1. | 60 ml/10 m ³ to lower the pH by 0.1. | 250–300 g/m ³ to lower the pH by 0.1. |
| When needed | Weekly if dosed by hand. | Weekly if dosed by hand. | Weekly if dosed by hand. |
| Precautions for use | Do not mix with chlorinating agents (TRICLOR 90, BICLOR 56, OXICLOR 10 EVOLUTION, IPOCLOR 30, ETC.) | Do not mix with chlorinating agents (TRICLOR 90, BICLOR 56, OXICLOR 10 EVOLUTION, IPOCLOR 30, ETC.) | Do not mix with chlorinating agents (TRICLOR 90, BICLOR 56, OXICLOR 10 EVOLUTION, IPOCLOR 30, ETC.) |





WINTERIZERS

CLOSING THE SWIMMING POOL

WINTERIZERS

When the summer comes to an end, it is essential to shut down the systems and pool correctly to prevent them from being damaged during the winter months and in order to find the pool in perfect condition the following season.

In fact, even though a swimming pool is mainly used during the summer months, it should not be neglected during colder periods.

Closing the summer swimming pool is done in several stages, which will make starting up again the following year easier.

If done correctly, closure ensures that the filtration system, equipment and parts will last longer, as well as the structure and liner.

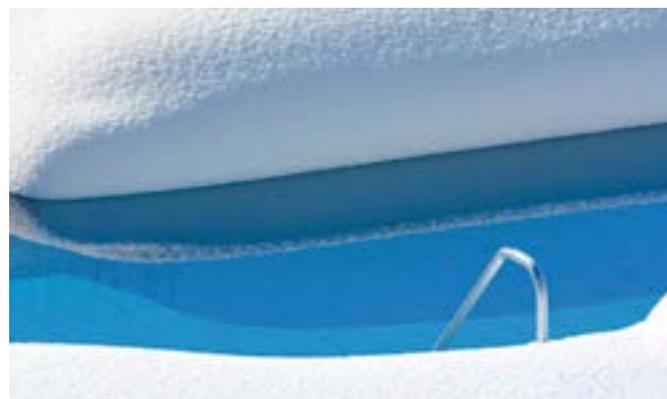
Using the winterizer formulated by the Barchemicals laboratory is essential to keep the carbonates in solution and reduce biofilm and algae formation.

This prevents limescale from depositing and building up in layers on the pool walls, resulting in limescale that would be difficult to remove when the swimming pool is re-opened.

Furthermore, this layer of limescale would be an excellent medium on which algae can form.



Closing the swimming pool correctly for the winter is a prerequisite for a good start to the following season.



Closing the swimming pool Clean the bottom of the swimming pool, perform super chlorination with OXICLOR 10 EVOLUTION, add BLU DELUXE (5 l/100 m³) and add the recommended dosage of WINTER P, leaving the pumps on for 24 hours. Thereafter, lower the water level under the skimmers (if any), backwash the filters for a long time and, where possible, leave them open and free of water. Fit the winter cover. This will make it much easier to re-open the swimming pool again the following spring.

WINTER P

UFI Code: MU60-G0AS-100U-WJRQ

Winterizer liquid for swimming pools. It prevents limescale and sludge deposits in outdoor swimming pools during the winter shut-down. It allows the pool walls to be cleaned quickly and perfectly before the season reopens.



Recommended use

At the end of the bathing season and before covering the pool, perform superchlorination without suspending the maintenance treatment:

- For swimming pools treated with CHLORINE, use OXICLOR 10 EVOLUTION (100 g/m³) and possibly add 5 l of BLUE DELUXE per 100 m³ of water.
- For swimming pools treated with a SALT STERILIZER, use OXICLOR 10 EVOLUTION (100 g/m³) and 20 g of BIOSAN per m³ of water.
- For swimming pools treated with NO CHLOR, use BIOZONO AG+ ISDV (1 l/m³) and 20 g of BIOSAN per m³ of water.

The next day, add 10 l of WINTER P per 100 m³ of water. Adjust the pH level of the water to keep it in the range 7.0 to 7.4. Pour the required doses directly into the swimming pool water. Always leave the filtration device running for the time needed to distribute the product uniformly in the water. Halfway through winter, it is advisable to repeat the treatment with OXICLOR 10 EVOLUTION or BIOZONO AG+ ISDV if the pool is not covered.

Ideal for

Ideal for swimming pools with tiling, a liner or made of polyester.

Added value

It prevents rapid water deterioration. It makes spring cleaning easier and prevents intense algae proliferation. It does not foam and is compatible with all disinfectant treatments. It dissolves completely in water.

F

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|-------------------|----------|------------|-----------------|
| 056014 | WINTER P - Liquid | B0, 1 l | 20 | 300 l |
| 220802002 | WINTER P - Liquid | CA, 5 l | - | 560 l |
| 056011 | WINTER P - Liquid | CA, 10 l | - | 600 l |

Product for professional and domestic use.



WINTERIZERS

RAPID WATER TREATMENT HANDBOOK: Use of the Winterizer

| | WINTER P | WINTER P | WINTER P |
|----------------------------|--|---|---|
| | A Special product for winterizing summer swimming pools. | A Special product for winterizing summer swimming pools. | A Special product for winterizing summer swimming pools. |
| | FOR SWIMMING POOLS TREATED WITH CHLORINE | FOR SWIMMING POOLS WITH A SALT STERILIZER | FOR SWIMMING POOLS TREATED WITH NO CHLOR |
| What it is used for | It prevents the limescale or slimy deposits. | It prevents the limescale or slimy deposits. | It prevents the limescale or slimy deposits. |
| How to use it | Directly in the pool at the end of the season, dosing it at the point of maximum turbulence after performing superchlorination with OXICLOR 10 EVOLUTION together with an algacide (BLU DELUXE is recommended) | Directly in the pool at the end of the season, dosing it at the point of maximum turbulence after performing superchlorination with OXICLOR 10 EVOLUTION together with BIOSAN | Directly in the pool at the end of the season, dosing it at the point of maximum turbulence after performing superchlorination with BIOZONO Ag+ ISDV together with BIOSAN |
| Dosages | 30 g per m ³ for medium-hard water; up to 50 g per m ³ for hard water; up to 100 g/m ³ for very hard water. | 30 g per m ³ for medium-hard water; up to 50 g per m ³ for hard water; up to 100 g/m ³ for very hard water. | 30 g per m ³ for medium-hard water; up to 50 g per m ³ for hard water; up to 100 g/m ³ for very hard water. |
| When needed | At the end of the summer season, before closing down the pool. | At the end of the summer season, before closing down the pool. | At the end of the summer season, before closing down the pool. |
| Precautions for use | Avoid eye or skin contact. | Avoid eye or skin contact. | Avoid eye or skin contact. |



SPECIAL TREATMENTS

SPECIFIC SOLUTIONS

SPECIAL TREATMENTS

SPECIFIC SOLUTIONS

Sometimes, the swimming pool may have unusual, problematic conditions that can only be remedied with special products.

Barchemicals offers a range of specific products that, used on their own, or together with other products, can remedy the various problems that may arise.

A complete product line to remedy inconveniences and unexpected situations



SPECIAL PRODUCTS

CONTROL METAL

UFI Code: WS60-Y0NC-R00C-775N

Anti-sludge sequestrant for heavy metals.

It prevents iron and manganese precipitation, and strong limescale and silica residues.

Suitable for use at the start of the season.



Recommended use

Add CONTROL METAL directly into the pool with dosages of 30–60 cc/m³ during initial filling. Adjust the pH in the range 7.6 to 7.8 and leave under filtration for at least 48 hours while carrying out regular backwashing.

Only chlorinate when you are sure you that the iron and manganese is constant and lower than 0.05 ppm.

F

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|----------------------|----------|------------|-----------------|
| 021302001 | CONTROL METAL Liquid | B0, 1 l | 20 | 300 pcs |
| 056C11 | CONTROL METAL Liquid | CA, 10 l | - | 400 l |

CONTROL METAL RX

UFI Code: 9530-Q0NP-V00J-FVPX

Sequestrant for emergency response **when the damage has already been done.**

Iron and manganese have **precipitated**, the swimming pool walls are stained, and the pool water is coloured: the situation can be remedied in just a few minutes by adding a truly miraculous product.



Recommended use

Add CONTROL METAL RX directly into the pool, pouring it directly onto the stained walls: Iron and manganese will gradually dissolve to be filtered and expelled from the system.

Remove any chlorine tables from the skimmer and/or suspend the automatic chlorination system.

Adjust the pH in the range 7.6 to 7.8 and leave the system under filtration for at least 48 hours while carrying out backwashing every 12 hours. Avoid adding water loaded with iron and manganese in the future once the water is transparent again.

Ideal for

Eliminating iron and manganese residues.

F

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|--------|---------------------------|----------|------------|-----------------|
| 057C10 | CONTROL METAL RX - Liquid | CA, 10 l | - | 400 l |

SPECIAL PRODUCTS

BLU CLEAR

UFI Code: FE90-P01P-700P-RT7N

Multifunctional agent with a clarifying and coagulating effect for fresh and salt water in swimming pools and spas. Based on natural polymers: Chitosan. It prevents formation of iron and manganese stains on PVC liners and "BLACK LINES" at the waterline on vertical walls.



Recommended use

To keep the water crystal-clear, use the recommended doses (100 cc per 10 m³) of BLU CLEAR once a week. For private swimming pools used frequently or for public swimming pools, increase the use to twice a week with a double dose.

1. Ensure that the filter is clean and working properly.
2. Add the required dose of BLU CLEAR directly into the pool, uniformly on the pool surface.

Ideal for

All kinds of swimming pools and all kinds of filters.

Added value

Using BLU CLEAR regularly keeps the water crystal-clear and clean, helping the filter to capture the dirt.

It eliminates oil and cream residues, as well as foams and excess metals, and is compatible with all disinfectant systems.

BLU CLEAR is simple to use, makes cleaning the filter easier and improves the performance of the saline electrolysis system.

It helps to prevent the black line at the waterline on the vertical walls.

F

| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|------------------|----------|--------|-----------------|
| 010602001 | BLU CLEAR Liquid | B0, 1 l | 20 | 300 l |
| 010602007 | BLU CLEAR Liquid | CA, 5 l | - | 560 l |
| 010602011 | BLU CLEAR Liquid | CA, 10 l | - | 600 l |

SPECIAL PRODUCTS

CLORO MENO LIQUID

UFI Code: 9530-Q0NP-V00J-FVPX

Dechlorinator to remove chlorine from the swimming pool.



Recommended use

Dilute the required doses in a container with water and pour this solution uniformly into the water in the swimming pool or tank to be dechlorinated. Add 6 ml/m³ to reduce the residual chlorine by 1 ppm per 100 m³ of water.

Ideal for

Eliminating excess chlorine after shock treatment.

Added value

Eliminates chlorine or bromine quickly to allow use almost immediately after shock treatment or excessive dosing. Excess chlorine and bromine will no longer be a problem.

F

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|--------|-------------------|----------|------------|-----------------|
| 057011 | CLORO MENO Liquid | CA, 10 l | - | 400 l |

BLU DECLOR

UFI Code: MH90-50R2-J006-E4TQ

Product for removing chlorine **from the drain water**. It does not leave residues. It is based on active oxygen.



F

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|--------|-------------------|----------|------------|-----------------|
| 066109 | BLU DECLOR Liquid | CA, 10 l | - | 400 l |

SPECIAL PRODUCTS

SPECIAL PRODUCTS: COLOUR TEST FOR SWIMMING POOLS

F

ERIOCHROME BLACK*

UFI Code: VDH0-NOXU-100S-AFEV

4% solution of ERIochrome BLACK in water for colour testing during initial testing of the water circulation system in private and public swimming pools. Complies with UNI 10637.



| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|---------------------------------|----------|------------|-----------------|
| 220610012 | ERIOCHROME BLACK T SOLUTION 4 % | CA, 10 l | - | 600 l |

* made to order

F

BIO-OXI GRANULES - ISDV

UFI Code: K5D0-V04D-100H-WQVQ

Oxidant based on active oxygen. It is an agent with a high oxidizing capacity for shock treatment of swimming pool water using bromine or No Chlor disinfection systems. It is also ideal for sanitizing hard surfaces.



Recommended use

For swimming pools: oxidizing shock treatment 50 g/m³. For swimming pools, we recommend using BIO OXI GRANULES - ISDV weekly at a concentration of 10–30 g/m³ together with EXPOSAN C91 and EXPOSAN RB1. It promotes the elimination of chloramines, chlorophenols and trihalomethanes. The product can be dosed in water with the DPD method.

For hard surfaces: add 100 g of BIO OXI GRANULES - ISDV to 5 l of water in a plastic container.

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|-------------------------|-----------|------------|-----------------|
| 010610026 | BIO-OXI Granules - ISDV | BU, 10 KG | - | 360 kg |



FILTER MEDIA

INNOVATIVE MATERIALS FOR
WATER FILTRATION

FILTER MEDIA

BIOVITRUM

Filter media

NEW !

All our Biovitrum products
comply with Directive
(EU) 2020/2024 and Italian
Ministerial Decree 174/2004

BIOVITRUM is the registered trademark for a filter media range based on the use of ground glass. These **high-technology materials** were developed by Barchemicals Group on the basis of laboratory research, field experience and partnerships with universities.

Using ground glass instead of quartzite reduces the risk of limescale, while agglomerates make backwashing the filter media more fluid.

BIOVITRUM production starts with selecting, washing and sterilizing the raw material and activating the active sites by means of heat treatment.

This treatment enables the materials to amplify all chemical/physical processes that take place during filtration, e.g. autoflocculation of both organic and colloidal substances, and those of the inorganic substances in the water to be treated.

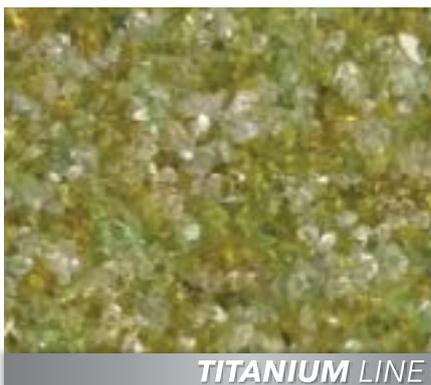


BioVitrum Ag+



TITANIUM LINE

BioVitrum Ti



TITANIUM LINE

BioVitrum Sfere



V* BIOVITRUM Ag+®
Filter media

TOP
PRODUCT!

BIOVITRUM Ag+® has a silver coating that makes it particularly suitable for treating any type of water. The surface of Biovitrum is silver coated through a special patented process that permanently attaches the metallic silver atoms to the glass. This process gives the surface long-term immunity to attack, even by concentrated chemicals added to the swimming pool water, and also discourages biofilm adhesion.

The filtration quality of **BIOVITRUM Ag+** is long-lasting because the silver coating is **permanently attached to the surface** of the filter media by means of patented technology, and is immune to attack from the chemicals in the water. The composition of BIOVITRUM Ag+ means that it can be used to filter swimming pool water, process water, waste water and drinking water.

THE ADVANTAGES OF BIOVITRUM Ag+

Less time required for backwashing - considerable water savings;

No chlorine smell - no chloroamine generation in the filter;

Eco-friendly – no biofilm – savings.

APPLICATIONS:

Filter media for:

- Swimming pool water
- Waste water
- Drinking water
- Process water
- Water for agricultural use
- Water for livestock use

OPERATING CRITERIA:

Recommended filtration speed:
35 – 50 m/h

Washing with air:
60 – 100 m/h

Washing with water:
MAX 50 m/h

Filter medium
expansion:
10 to 30%

BioVitrum Ag+



TITANIUM LINE

NO CHLORINE SMELL

Chlorine is undoubtedly an excellent disinfectant, but the reaction with organic and inorganic substances produces other reactions that lead to the formation of chlorine compounds such as chloramine, chlorophenol and trihalomethane.

Filtration based on BIOVITRUM Ag+ allows less chlorine to be used for disinfection processes, discouraging the formation of by-products that often have an unpleasant odour and are harmful to bathers' health.

*It is sold in complete pallets only. When purchasing smaller amounts: minimum order of 200 kg with discount reduced proportionally.

If bags are broken during transport – provided that “subject to verification” is stated on the DELIVERY/CONSIGNMENT NOTE and there is suitable supporting photographic documentation - BROKEN BAGS WILL NOT BE REPLACED, but 5% of the value of bags actually damaged and resulting in product spillage will be refunded.

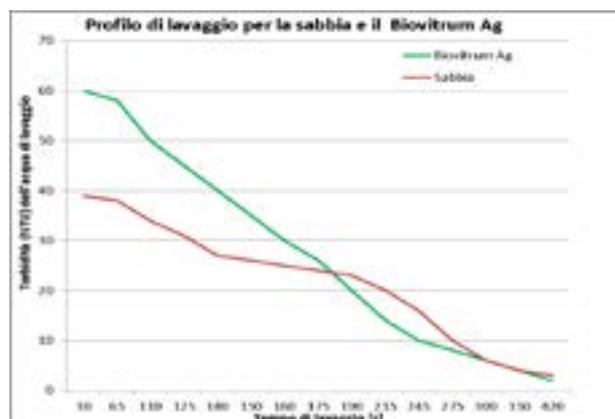
FILTER MEDIA

LONG FILTER BED LIFE:

Backwashing is the process in which the filter is washed with a flow in the opposite direction, which removes most of the organic substances in it.

However, most of the biofilm, meaning the mixed organic/inorganic structure generated by the bacteria, is however not removed during this process. A build-up of biofilm is often the main reason for a loss of filter performance.

The special coating prevents the biofilm from building up, ensuring that the performance of **BIOVITRUM Ag+** remains constantly high for many years. Furthermore, because there is no biofilm, it optimizes and facilitates all backwashing processes, thus ensuring significant water savings.



The curve shows the water consumption while backwashing a filter filled with sand compared to that of a filter filled with Biovitrum Ag+.

The Biovitrum Ag+ filter expels up to 35% more impurities.

FILTRATION RATING

The filter medium in filters with **BIOVITRUM Ag+** is very fine; so fine that at a filtration rate of 35 – 50 m/h, it guarantees nominal filtration below 5 microns without flocculation.

The filtration rating of **BIOVITRUM Ag+** is therefore at least 25% higher than sand or normal glass. Nominal filtration below 1 micron can be achieved using flocculants. The water in your swimming pool will be clean and free of cloudiness.

| Chemical Composition | |
|--------------------------------|---------|
| SiO ₂ | 71.36% |
| Fe ₂ O ₃ | 0.10 % |
| CaO | 9.00 % |
| K ₂ O | 1.21 % |
| Al ₂ O ₃ | 0.95% |
| MgO | 3.80 % |
| SO ₃ | 0.30 % |
| Na ₂ O | 13.80 % |
| Ag Nanotech | 0.04 % |

| Material | |
|---|-------------------------------|
| 100% ground glass, heat-activated at over 600°C | |
| Specific weight | 1.42 - 1.45 g/cm ³ |

INTERESTING FACT

Silver ions seem to destroy micro-organisms instantly by blocking their enzymatic respiratory system (i.e. energy production) and altering their microbial DNA and cell wall, without having any toxic effects on living human cells.

| Code | Description | Pallet Quantity |
|-----------|--|-----------------|
| 010602080 | BIOVITRUM Ag+ 0.6 – 1.2 mm - SA, 25 KG | 1050 kg |
| 010602081 | BIOVITRUM Ag+ 1.0 – 3.0 mm - SA, 25 KG | 1050 kg |

*It is sold in complete pallets only. When purchasing smaller amounts: minimum order of 200 kg with discount reduced proportionally. If bags are broken during transport – provided that “subject to verification” is stated on the DELIVERY/CONSIGNMENT NOTE and there is suitable supporting photographic documentation - BROKEN BAGS WILL NOT BE REPLACED, but 5% of the value of bags actually damaged and resulting in product spillage will be refunded.

V* BIOVITRUM Ti®

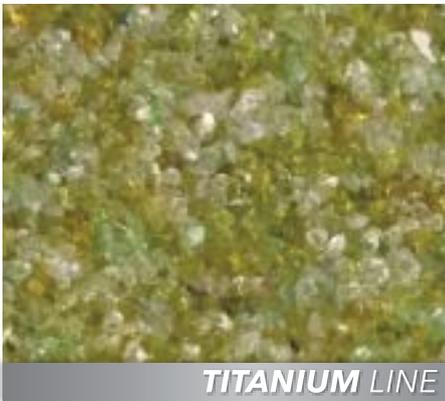
Filter media

BIOVITRUM Ti® is an innovative filter material for water filtration. It consists of glass particles whose active sites have been activated by heat treatments to make the surface self-cleaning and prevent dirt, grease and biofilm from adhering inside the filter.

The filtration quality of **BIOVITRUM Ti** is long-lasting and ensures lower backwashing frequency, resulting in less filter maintenance and great water savings.

The composition of Biovitrum Ti means that it can be used to filter swimming pool water, process water, waste water and drinking water.

BioVitrUmTi



LESS CHLORINE AND CHEMICAL CONSUMPTION

BIOVITRUM Ti combats the adhesion of dirt and grease, and the formation of biofilm, preventing organic substances from building up in the filter. As a result, less chlorine is consumed during the filtration process and less water is consumed during the backwashing process.

THE ADVANTAGES OF BIOVITRUM Ti:

Less time required for backwashing - considerable water savings;

No chlorine smell - no chloroamine generation in the filter;

Ecological - savings in chlorine and chemicals;

Long service life; long-lasting filtering efficiency.

APPLICATIONS:

Filter media for:

- Swimming pool water
- Waste water
- Drinking water
- Process water
- Water for agricultural use
- Water for livestock use

*It is sold in complete pallets only. When purchasing smaller amounts: minimum order of 200 kg with discount reduced proportionally.

If bags are broken during transport – provided that “subject to verification” is stated on the DELIVERY/CONSIGNMENT NOTE and there is suitable supporting photographic documentation - BROKEN BAGS WILL NOT BE REPLACED, but 5% of the value of bags actually damaged and resulting in product spillage will be refunded.

FILTER MEDIA

LONG FILTER BED LIFE:

Backwashing is the process in which the filter is washed with a flow in the opposite direction, which removes most of the organic substances that build in it as a result of normal filtration.

However, most of the biofilm, meaning the mixed organic/inorganic structure generated by the bacteria, is however not removed during this process. A build-up of biofilm is often the main reason for a loss of filter performance.

The special properties of its surface help combat a build-up of biofilm, ensuring that the performance of **BIOVITRUM Ti** remains constantly high for many years. Furthermore, because there is no biofilm, it optimizes and facilitates all backwashing processes, thus ensuring significant water savings.



The curve shows the water consumption while backwashing a filter filled with sand compared to that of a filter filled with Biovitrum Ti.

The Biovitrum Ti filter expels from 35 to 40% more impurities.

| Chemical Composition | |
|--------------------------------|--------|
| SiO ₂ | 70.50% |
| Fe ₂ O ₃ | 0.30% |
| CaO | 9.50% |
| K ₂ O | 1.20% |
| Al ₂ O ₃ | 2.30% |
| MgO | 2.15% |
| B ₂ O ₃ | 0.15% |
| Na ₂ O | 13.30% |
| Nanotech TiO ₂ | 0.06 % |

| Material | |
|---|-------------------------------|
| 100% ground glass, heat-activated at over 600°C | |
| Specific weight | 1.35 - 1.45 g/cm ³ |

OPERATING CRITERIA:

Recommended filtration speed: 35 – 50 m/h
 Washing with air: 60 – 100 m/h
 Washing with water: MAX 50 m/h
 Filter medium expansion: 10 to 30%

| Code | Description | Pallet Quantity |
|-----------|-------------------------------------|-----------------|
| 010602082 | BIOVITRUM Ti 0.4–0.9 mm - SA, 25 KG | 1050 kg |
| 010602083 | BIOVITRUM Ti 1.5–2.5 mm - SA, 25 KG | 1050 kg |

*It is sold in complete pallets only. When purchasing smaller amounts: minimum order of 200 kg with discount reduced proportionally. If bags are broken during transport – provided that “subject to verification” is stated on the DELIVERY/CONSIGNMENT NOTE and there is suitable supporting photographic documentation - BROKEN BAGS WILL NOT BE REPLACED, but 5% of the value of bags actually damaged and resulting in product spillage will be refunded.

* BIOVITRUM SFERE

Glass beads for filters

Filter material for water filtration, consisting of **potassium-sodium silicate glass** microspheres. BioVitrum Sfera helps to achieve optimum backwashing efficiency - which also reduces water and electricity consumption by over 50% - because the special shape of the beads, and the chemical and physical properties of the surface ensure that the partial electrical loads are distributed uniformly.

The chemical composition of **BioVitrum Sfera** means that it can be used to filter any type of water: swimming pool, drinking, process and waste water. It also prevents the surface limescale and silicate deposits, which would "compact" the filter material and lead to preferential leakage channels, reducing the filter material performance. The roundness of BioVitrum Sfera reduces the space for water to pass between the glass balls, which are only a few microns in size, making filtration effective and very fast (**50 m³/m²/h**). In multilayer heterogeneous media filters, the filtration speed can reach **50 m³/m²/h** in accordance with Italian standard **UNI 10637:2016**.

Chemical Composition

| | |
|--------------------------------|--------|
| SiO ₂ | 71.20% |
| Fe ₂ O ₃ | 0.07% |
| CaO | 7.51% |
| K ₂ O | 1.27% |
| Al ₂ O ₃ | 2.40% |
| MgO | 1.28% |
| Na ₂ O | 15.42% |

Applications:

- Filtering **swimming pool water** (BioVitrum Sfera complies with both **UNI 10637** and **DIN 19643**)
- Filtering **drinking water** (BioVitrum Sfera does not release heavy metals into the filtered water)
- Filtering **seawater and water for natural swimming pools** and decorative/fish breeding ponds.
- Filtering waste water (depending on the particle size, the product is used for coarse filtration and refining waste water before drainage)
- Filtering **process water** (depending on the situation, BioVitrum Sfera can be used as it is or in combination with other filter media: quartz, anthracite, active carbon, etc.)
- Filtering water for **agricultural use** (the low tendency of BioVitrum Sfera to compact means that the surface water used in agriculture can be pre-treated before introducing it into irrigation lines, thus preventing nozzles from clogging)
- Filtration of **water for animal consumption**.

Material

| | |
|---------------------------------|-------------------------------|
| 100% sodium and potassium glass | |
| Specific weight | 1.42 - 1.50 g/cm ³ |
| Roundness | Minimum 80% |

BioVitrum Sfera



THE ADVANTAGES OF BIOVITRUM SFERE:

It produces crystal-clear, pure water.

Less time required for backwashing - considerable water and energy savings;

No chlorine smell - no chloroamine generation in the filter;

Ecological, savings in chlorine and chemicals;

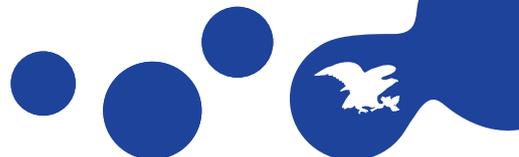
Crystal-clear water - no preferential routes - high filter performance;

Has a practically unlimited service-life;

Reduces the maintenance frequency.

| Code | Description | Pallet Quantity |
|-----------|---|-----------------|
| 010602059 | BIOVITRUM SFERE SMALL 0.6–0.8 mm - SA 25 KG | 1050 kg |
| 010602062 | BIOVITRUM SFERE BIG 1.2–2.5 mm - SA 25 KG | 1050 kg |

*It is sold in complete pallets only. When purchasing smaller amounts: minimum order of 200 kg with discount reduced proportionally. If bags are broken during transport – provided that "subject to verification" is stated on the DELIVERY/CONSIGNMENT NOTE and there is suitable supporting photographic documentation - BROKEN BAGS WILL NOT BE REPLACED, but 5% of the value of bags actually damaged and resulting in product spillage will be refunded.



Solution for Water Treatment

DICHIARAZIONE DI CONFORMITA' CE

IDENTIFICAZIONE DEL PRODOTTO: BIOVITRUM SFERE

FABBRICANTE: Barchemicals s.r.l., Via Alende, 14 - 41051 Castelnuovo Rangone (MO) Italia

Barchemicals s.r.l. dichiara che il prodotto **BIOVITRUM SFERE** risulta essere conforme ai seguenti regolamenti europei e decreti ministeriali italiani:

- Regolamento (CE) N. 1831/2003 del 27/10/2003 riguardante i materiali e gli oggetti destinati a venire a contatto con i prodotti alimentari
- Regolamento (CE) N. 202/2006 del 22/12/2006 sulla buona pratica di fabbricazione dei materiali e degli oggetti destinati a venire a contatto con prodotti alimentari
- Decreto (S) 20002/94 del 19/12/2000 concernente la qualità delle acque destinate al consumo umano
- DM del 21/03/1973 (Disciplina tecnica degli imballaggi, recipienti, attrezzi, destinati a venire in contatto con le sostanze alimentari o con sostanze d'uso personale)
- DM N. 174 del 05/04/2004 (Regolamento concernente i materiali e gli oggetti che possono essere utilizzati negli impianti fari di captazione, trattamento, adduzione e distribuzione delle acque destinate al consumo umano)

Secondo l'articolo 5 del DM 21/03/1973 gli oggetti destinati a venire in contatto con gli alimenti non devono contenere i loro costituenti in prodotti alimentari o in estratti dei prodotti alimentari in quantità superiori a 5 mg per decigrammo quando, oppure 10 mg per kg di prodotto alimentare. **BIOVITRUM SFERE** rispetta i limiti di migrazione globale e specifici previsti dal DM 21/03/1973 e può pertanto essere impiegato a contatto con alimenti.

Sono state applicate le seguenti norme nazionali (UNI), che traspongono le norme armonizzate europee (EN) nazionali del CEN (Comitato Europeo di Normazione), e internazionali (ISO):

- UNI 10027:2016
- UNI-EN 12901:2005
- UNI-EN 12902:2005
- ISO 7098-1:2019
- ISO 7098-2:2019

| PROPRIETA' CHIMICO FISICHE (UNI EN 12902:2005) | |
|--|---|
| Aspetto | Sfere di vetro, bianchicchio opaco |
| Colore | Incolore |
| Granulometria | 0,8 - 0,9 - 1,0 - 1,1 mm |
| Durezza | 8 Mohs |
| Densità | Min. 99% (0,8 - 0,9 mm) ; Min. 95% (1,0 - 1,1 mm) |
| Densità | 1,48-1,56 g/cm ³ |

BARCHEMIICALS s.r.l. / Based On: Corrado

BARCHEMIICALS s.r.l.

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Solution for Water Treatment

EC STATEMENT OF COMPLIANCE CE

PRODUCT IDENTIFICATION: BIOVITRUM SFERE

MANUFACTURER: Barchemicals srl, Via Alende, 14 - 41051 Castelnuovo Rangone (MO) Italy

Barchemicals srl declares that the **BIOVITRUM SFERE** product complies with the following European regulations and Italian ministerial decrees:

- Regulation (EC) No. 1831/2003 of 27/10/2003 concerning materials and objects intended to come into contact with food products
- Regulation (EC) No. 202/2006 of 22/12/2006 on good manufacturing practices for materials and objects intended to come into contact with food products
- Directive (S) 20002/94 of 19/12/2000 concerning the quality of water intended for human consumption
- Ministerial Decree of 21/03/1973 (Hygiene regulation of packaging, containers, tools intended to come into contact with food substances or substances for personal use)
- DM N. 174 of 05/04/2004 (Regulation concerning materials and objects that can be used in food systems for the collection, treatment, addition and distribution of water intended for human consumption)

According to article 5 of the Ministerial Decree of 21/03/1973, objects intended to come into contact with food must not transfer their constituents to food products or food simulants in quantities greater than 5 mg per square decimeter, or 10 mg per kg of food product. **BIOVITRUM SFERE** respects the global and specific migration limits set by the Ministerial Decree of 21/03/1973 and can therefore be used in contact with food. The following national (UNI) standards have been applied, which transpose the European harmonized standards (EN) developed by the CEN (European Committee for Standardization), and international (ISO):

- UNI 10027:2016
- UNI-EN 12901:2005
- UNI-EN 12902:2005
- ISO 7098-1:2019
- ISO 7098-2:2019

| CHEMICAL PHYSICAL PROPERTIES (UNI EN 12902: 2005) | |
|---|--|
| Appearance | Clear spheres, white / light grey |
| Smell | Odourless |
| Granulometry | 0,8 - 0,9 - 1,0 - 1,1 mm |
| Hardness | 8 Mohs |
| Sphericity | Min. 99% (0,8 - 0,9 mm); Min. 95% (1,0 - 1,1 mm) |
| Density | 1,48-1,56 g/cm ³ |

BARCHEMIICALS s.r.l. / Based On: Corrado

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Solution for Water Treatment

DICHIARAZIONE DI CONFORMITA' CE

IDENTIFICAZIONE DEL PRODOTTO: BIOVITRUM Ag⁺

FABBRICANTE: Barchemicals s.r.l., Via Alende, 14 - 41051 Castelnuovo Rangone (MO) Italia

Barchemicals s.r.l. dichiara che il prodotto **BIOVITRUM Ag⁺** risulta essere conforme ai seguenti regolamenti europei e decreti ministeriali italiani:

- Regolamento (CE) N. 1831/2003 del 27/10/2003 riguardante i materiali e gli oggetti destinati a venire a contatto con i prodotti alimentari
- Regolamento (CE) N. 202/2006 del 22/12/2006 sulla buona pratica di fabbricazione dei materiali e degli oggetti destinati a venire a contatto con prodotti alimentari
- Decreto (S) 20002/94 del 19/12/2000 concernente la qualità delle acque destinate al consumo umano
- DM del 21/03/1973 (Disciplina tecnica degli imballaggi, recipienti, attrezzi, destinati a venire in contatto con le sostanze alimentari o con sostanze d'uso personale)
- DM N. 174 del 05/04/2004 (Regolamento concernente i materiali e gli oggetti che possono essere utilizzati negli impianti fari di captazione, trattamento, adduzione e distribuzione delle acque destinate al consumo umano)

Secondo l'articolo 5 del DM 21/03/1973 gli oggetti destinati a venire in contatto con gli alimenti non devono contenere i loro costituenti in prodotti alimentari o in estratti dei prodotti alimentari in quantità superiori a 5 mg per decigrammo quando, oppure 10 mg per kg di prodotto alimentare. **BIOVITRUM Ag⁺** rispetta i limiti di migrazione globale e specifici previsti dal DM 21/03/1973 e può pertanto essere impiegato a contatto con alimenti.

Sono state applicate le seguenti norme nazionali (UNI), che traspongono le norme armonizzate europee (EN) nazionali del CEN (Comitato Europeo di Normazione), e internazionali (ISO):

- UNI 10027:2016
- UNI-EN 12901:2005
- UNI-EN 12902:2005
- ISO 7098-1:2019
- ISO 7098-2:2019

| PROPRIETA' CHIMICO FISICHE (UNI EN 12902:2005) | |
|--|-------------------------------|
| Aspetto | Vetro frantumato grigio opaco |
| Colore | Incolore |
| Granulometria | 0,8 - 0,9 - 1,0 - 1,1 mm |
| Durezza | 8 - 7 Mohs |
| Densità | 1,3 - 1,4 g/cm ³ |

Composizione Chimica:

- SiO₂ = 71,90%
- Na₂O = 13,30%
- CaO = 9,90%
- Al₂O₃ = 2,10%
- K₂O = 5,40%
- MgO = 1,10%
- Fe₂O₃ = 0,30%
- BeO = 0,10%

BARCHEMIICALS s.r.l. / Based On: Corrado

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Solution for Water Treatment

EC STATEMENT OF COMPLIANCE CE

PRODUCT IDENTIFICATION: BIOVITRUM Ag⁺

MANUFACTURER: Barchemicals srl, Via Alende, 14 - 41051 Castelnuovo Rangone (MO) Italy

Barchemicals srl declares that the **BIOVITRUM Ag⁺** product complies with the following European regulations and Italian ministerial decrees:

- Regulation (EC) No. 1831/2003 of 27/10/2003 concerning materials and objects intended to come into contact with food products
- Regulation (EC) No. 202/2006 of 22/12/2006 on good manufacturing practices for materials and objects intended to come into contact with food products
- Directive (S) 20002/94 of 19/12/2000 concerning the quality of water intended for human consumption
- Ministerial Decree of 21/03/1973 (Hygiene regulation of packaging, containers, tools intended to come into contact with food substances or substances for personal use)
- DM N. 174 of 05/04/2004 (Regulation concerning materials and objects that can be used in food systems for the collection, treatment, addition and distribution of water intended for human consumption)

According to article 5 of the Ministerial Decree of 21/03/1973, objects intended to come into contact with food must not transfer their constituents to food products or food simulants in quantities greater than 5 mg per square decimeter, or 10 mg per kg of food product. **BIOVITRUM Ag⁺** complies with the global and specific migration limits set by the Ministerial Decree of 21/03/1973 and can therefore be used in contact with food. The following national (UNI) standards have been applied, which transpose the European harmonized standards (EN) developed by the CEN (European Committee for Standardization), and international (ISO):

- UNI 10027:2016
- UNI-EN 12901:2005
- UNI-EN 12902:2005
- ISO 7098-1:2019
- ISO 7098-2:2019

| CHEMICAL PHYSICAL PROPERTIES (UNI EN 12902: 2005) | |
|---|-----------------------------|
| Appearance | Light grey shattered glass |
| Smell | Odourless |
| Granulometry | 0,8 - 0,9 - 1,0 - 1,1 mm |
| Hardness | 8 - 7 Mohs |
| Density | 1,3 - 1,4 g/cm ³ |

Chemical composition:

- SiO₂ = 71,90%
- Na₂O = 13,30%
- CaO = 9,90%
- Al₂O₃ = 2,10%
- K₂O = 1,40%
- MgO = 1,10%
- Fe₂O₃ = 0,30%
- BeO = 0,10%

BARCHEMIICALS s.r.l. / Based On: Corrado

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BARCHEMICALS GROUP
Solution for Water Treatment

DICHIARAZIONE DI CONFORMITA'

CE

IDENTIFICAZIONE DEL PRODOTTO: QUARZITE PURA

FABBRICANTE: Barchemicals s.r.l., Via Alende, 14 - 41051 Castelnovo Rangone (MO) Italia

Sono state applicate le seguenti norme nazionali (DIN), che traspongono le norme armonizzate europee (EN) elaborate dal CEN (Comitato Europeo di Normazione), e internazionali (ISO):

- UNI 10837:2016
- UNI EN 12901:2005
- UNI EN 12902:2005
- UNI EN 12904:2005

PROPRIETA' CHIMICO FISICHE (UNI EN 12904:2005):

| | |
|---------|----------------------------------|
| Aspetto | Babbie granate di quarzo, bianco |
| Colore | Inodore |
| Densità | 7 volte |

| | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| Granometria (mm) | 0,4 - 0,8 | 0,8 - 1,2 | 1,2 - 1,6 | 1,6 - 2,0 | 2,0 - 2,5 | 2,5 - 3,0 | 3,0 - 4,0 | 4,0 - 5,0 | 5,0 - 6,0 | 6,0 - 8,0 | 8,0 - 10 |
| Dimensione effettiva (d ₉₀) | 0,45 mm | 0,90 mm | 1,25 mm | 1,50 mm | 1,75 mm | 2,10 mm | 2,50 mm | 3,00 mm | 3,50 mm | 4,00 mm | 4,50 mm |
| Setoloio da col passare (75 µm) | 0,37 mm | 0,75 mm | 1,10 mm | 1,50 mm | 1,75 mm | 2,10 mm | 2,50 mm | 3,00 mm | 3,50 mm | 4,00 mm | 4,50 mm |
| Setoloio da col passare (80 µm) | 0,47 mm | 0,90 mm | 1,25 mm | 1,50 mm | 1,75 mm | 2,10 mm | 2,50 mm | 3,00 mm | 3,50 mm | 4,00 mm | 4,50 mm |
| Coefficiente di uniformità U ₂ | +1,8 | +1,8 | +1,8 | +1,8 | +1,8 | +1,8 | +1,8 | +1,8 | +1,8 | +1,8 | +1,8 |

Composizione Chimica:

- SiO₂ = 96,00%
- Al₂O₃ = 1,90%
- K₂O+Na₂O = 1,07%
- Fe₂O₃ = 0,13%
- CaO+MgO = 0,00%
- TiO₂ = 0,00%

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Sede e Direzione Generale: Via Alende, 14 - 41051 Castelnovo Rangone (MO) Italia

BARCHEMICALS GROUP
Solution for Water Treatment

EC STATEMENT OF COMPLIANCE

CE

PRODUCT IDENTIFICATION: QUARZITE PURA

MANUFACTURER: Barchemicals s.r.l., Via Alende, 14 - 41051 Castelnovo Rangone (MO) Italy

The following national (DIN) standards have been applied, which transpose the European harmonized standards (EN) developed by the CEN (European Committee for Standardization), and international (ISO):

- UNI 10837:2016
- UNI EN 12901:2005
- UNI EN 12902:2005
- UNI EN 12904:2005

CHEMICAL PHYSICAL PROPERTIES (UNI EN 12904:2005):

| | |
|------------|----------------------------|
| Appearance | White quartz grains, white |
| Smell | Odorless |
| Hardness | 7 Mohs |

| | | | | | | | | | | | |
|---------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| Gran size (mm) | 0,4 - 0,8 | 0,8 - 1,2 | 1,2 - 1,6 | 1,6 - 2,0 | 2,0 - 2,5 | 2,5 - 3,0 | 3,0 - 4,0 | 4,0 - 5,0 | 5,0 - 6,0 | 6,0 - 8,0 | 8,0 - 10 |
| Effective size (d ₉₀) | 0,45 mm | 0,90 mm | 1,25 mm | 1,50 mm | 1,75 mm | 2,10 mm | 2,50 mm | 3,00 mm | 3,50 mm | 4,00 mm | 4,50 mm |
| 75 mesh sieve (µm) | 0,37 mm | 0,75 mm | 1,10 mm | 1,50 mm | 1,75 mm | 2,10 mm | 2,50 mm | 3,00 mm | 3,50 mm | 4,00 mm | 4,50 mm |
| 80 mesh sieve (µm) | 0,47 mm | 0,90 mm | 1,25 mm | 1,50 mm | 1,75 mm | 2,10 mm | 2,50 mm | 3,00 mm | 3,50 mm | 4,00 mm | 4,50 mm |
| Uniformity coefficient U ₂ | +1,8 | +1,8 | +1,8 | +1,8 | +1,8 | +1,8 | +1,8 | +1,8 | +1,8 | +1,8 | +1,8 |

Chemical composition:

- SiO₂ = 96,00%
- Al₂O₃ = 1,90%
- K₂O+Na₂O = 1,07%
- Fe₂O₃ = 0,13%
- CaO+MgO = 0,00%
- TiO₂ = 0,00%

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BARCHEMICALS GROUP
Solution for Water Treatment

DICHIARAZIONE DI CONFORMITA'

CE

IDENTIFICAZIONE DEL PRODOTTO: BIOVITRUM T1

FABBRICANTE: Barchemicals s.r.l., Via Alende, 14 - 41051 Castelnovo Rangone (MO) Italia

Barchemicals s.r.l. dichiara che il prodotto **BIOVITRUM T1** risulta essere conforme ai seguenti regolamenti europei e decreti ministeriali italiani:

- Regolamento (CE) N. 1831/2003 del 22/10/2003 riguardante i materiali e gli oggetti destinati a venire in contatto con i prodotti alimentari
- Regolamento (CE) N. 2023/2006 del 22/12/2006 sulle buone pratiche di fabbricazione dei materiali e degli oggetti destinati a venire in contatto con prodotti alimentari
- Decreto (L. 8) 20202/184 del 10/12/2009 concernente la qualità delle acque destinate al consumo umano
- DM del 21/03/1973: Disciplina igienica degli imballaggi, recipienti, utensili, destinati a venire in contatto con le sostanze alimentari o con recipienti di sostanze alimentari
- DM n. 174 del 05/04/2004: Regolamento concernente i materiali e gli oggetti che possono venire utilizzati negli impianti fusti di depurazione, trattamento, imballaggio e distribuzione delle acque destinate al consumo umano

Secondo l'articolo 5 del DM 21/03/1973 gli oggetti destinati a venire in contatto con gli alimenti non devono contenere i loro costituenti in quantità superiori o al superarsi dei limiti stabiliti in quantità superiori di 8 mg per decimetro quadrato, oppure 100 mg per kg di prodotto alimentare. Il BIOVITRUM T1 rispetta i limiti di massima glicole e specifici previsti dal DM 21/03/1973 e può pertanto essere impiegato in contatto con alimenti.

Sono state applicate le seguenti norme nazionali (DIN), che traspongono le norme armonizzate europee (EN) elaborate dal CEN (Comitato Europeo di Normazione), e internazionali (ISO):

- UNI 10837:2016
- UNI EN 12901:2005
- UNI EN 12902:2005
- ISO 1088-1:2019
- ISO 1088-2:2019

PROPRIETA' CHIMICO FISICHE (UNI EN 12902:2005):

| | |
|-------------|-------------------------------|
| Aspetto | Vetro frantumato, colore vari |
| Colore | Inodore |
| Granometria | 0,4 - 0,8 mm / 1,8 - 2,5 mm |
| Densità | ~ 7 volte |
| Densità | 1,3 - 1,4 g/cm ³ |

Composizione Chimica:

- SiO₂ = 71,80%
- Na₂O = 13,30%
- CaO = 9,80%
- Al₂O₃ = 2,10%
- K₂O = 1,40%
- MgO = 1,15%
- Fe₂O₃ = 0,30%
- BeO = 0,15%

BARCHEMICALS s.r.l.
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BARCHEMICALS GROUP
Solution for Water Treatment

EC STATEMENT OF COMPLIANCE

CE

PRODUCT IDENTIFICATION: BIOVITRUM T1

MANUFACTURER: Barchemicals s.r.l., Via Alende, 14 - 41051 Castelnovo Rangone (MO) Italy

Barchemicals s.r.l. declares that the **BIOVITRUM T1** product complies with the following European regulations and Italian ministerial decrees:

- Regulation (EC) No. 1831/2003 of 22/10/2003 concerning materials and objects intended to come into contact with food products
- Regulation (EC) No. 2023/2006 of 22/12/2006 on good manufacturing practices for materials and objects intended to come into contact with food products
- Decree (L. 8) 20202/184 of 10/12/2009 concerning the quality of water intended for human consumption
- Ministerial Decree of 21/03/1973: Hygienic regulation of packaging, containers, tools intended to come into contact with food substances or substances for personal use
- DM N. 174 of 05/04/2004: Regulation concerning materials and objects that can be used in food systems for the collection, treatment, addition and distribution of water intended for human consumption

According to article 5 of the Ministerial Decree of 21/03/1973, objects intended to come into contact with food must not transfer their constituents to food products or food simulants in quantities greater than 8 mg per square decimeter, or 100 mg per kg of food product. BIOVITRUM T1 respects the glycol and specific migration limits set by the Ministerial Decree of 21/03/1973 and can therefore be used in contact with food.

The following national (DIN) standards have been applied, which transpose the European harmonized standards (EN), developed by the CEN (European Committee for Standardization), and international (ISO):

- UNI 10837:2016
- UNI EN 12901:2005
- UNI EN 12902:2005
- ISO 1088-1:2019
- ISO 1088-2:2019

CHEMICAL PHYSICAL PROPERTIES (UNI EN 12902:2005):

| | |
|--------------|--------------------------------|
| Appearance | Shattered glass, various color |
| Smell | Odorless |
| Granulometry | 0,4 - 0,8 mm / 1,8 - 2,5 mm |
| Hardness | ~ 7 Mohs |
| Density | 1,3 - 1,4 g/cm ³ |

Chemical composition:

- SiO₂ = 71,80%
- Na₂O = 13,30%
- CaO = 9,80%
- Al₂O₃ = 2,10%
- K₂O = 1,40%
- MgO = 1,15%
- Fe₂O₃ = 0,30%
- BeO = 0,15%

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FILTER MEDIA

PURE QUARTZITE



PURE QUARTZITE - Quartz sand for filters, in 25 kg sacks.
Barchemicals pure quartzite is over 98% pure silica.



| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|---|-----------|------------|-----------------|
| 010602028 | PURE QUARTZITE Granules. - 0.4 – 0.8 mm | SA, 25 KG | - | 1575 kg |
| 010602002 | PURE QUARTZITE Granules. - 0.8 – 1.2 mm | SA, 25 KG | - | 1575 kg |
| 010602031 | PURE QUARTZITE Granules. - 1.0 – 3.0 mm | SA, 25 KG | - | 1575 kg |
| 010602032 | PURE QUARTZITE Granules. - 3.0 – 6.0 mm | SA, 25 KG | - | 1575 kg |
| 010602034 | PURE QUARTZITE Granules. - 6.0 – 9.0 mm | SA, 25 KG | - | 1575 kg |
| 010602035 | PURE QUARTZITE Granules. - 10 – 20 mm | SA, 25 KG | - | 1575 kg |



DIATOMACEOUS EARTH

Specifically for water treatment in diatomaceous earth filters.
Packed in 25 kg paper sacks.



| Code | Description | Package | Pieces/Box | Pallet Quantity |
|--------|--|-----------|------------|-----------------|
| 058025 | PRIMISIL 802 Diatomaceous earth powder | SA, 25 KG | - | 1050 kg |

*It is sold in complete pallets only. When purchasing smaller amounts: minimum order of 200 kg with discount reduced proportionally.
If bags are broken during transport – provided that “subject to verification” is stated on the DELIVERY/CONSIGNMENT NOTE and there is suitable supporting photographic documentation - BROKEN BAGS WILL NOT BE REPLACED, but 5% of the value of bags actually damaged and resulting in product spillage will be refunded.



SPECIAL PRODUCTS: FILTER MAINTENANCE

The main role of the swimming pool filtration system is to keep the water clean, clear and transparent. An effective filter can collect more than 98% of the pollutant load in the water.

A dirty, polluted filter is a sick one, which pollutes the water instead of cleaning it.

That is why the Barchemicals laboratories have designed specific products for cleaning and disinfecting your filter, whether it be a quartz, glass, diatomaceous earth or cartridge filter.

Just a few simple steps and your filter will be as good as new, and your water will be cleaner and healthier.

FILTER CLEANING AND DISINFECTION PROCEDURE

First, perform a good backwash. Open the filter and leave enough water to cover the filtration layer. For diatomaceous earth or cartridge filters, empty the diatomaceous earth or rinse the cartridge to remove the dirt.

Add 10 l of BLU FILTER CLEANER per 100/200 kg of quartzite, taking into account the amount of pollution in the filter medium.

Mixing the quartzite or glass with a wooden or plastic stick ensures that the product reaches even the lowest areas of the filter medium. Slight CO₂ or foam production means that BLU FILTER CLEANER is working.

Leave it to take effect overnight.

After this, close the filter again and perform a long backwash until there is no foam in the drain water.

For diatomaceous earth and cartridge filters, immerse the bags and cartridges in a 20–30% BLU FILTER CLEANER solution and leave it to take effect overnight, after which rinse them thoroughly and then close the filter.

The next stage consists of sanitizing the filter. For sand filters, repeat the cleaning procedure, but using equal amounts of BLU FILTER CLEANER, OXICLOR 10 EVOLUTION or OXI CLEAR FILTER.

Use the same procedure for diatomaceous earth and cartridge filters.

Leave it to take effect for at least 6 hours, after which rinse and put the system in "filtration" mode.

F

BLU FILTER CLEANER

UFI Code: 0S10-M0MA-Y00N-VECW

A special cleaning product for looking after and cleaning the filter. BLU FILTER CLEANER simultaneously removes both limescale and organic residues from the filter. To get the best disinfection results, we recommend using BLU FILTER CLEANER followed by further treatment with OXICLOR 10 EVOLUTION or OXICLEAR FILTER.

| Code | Description | Package | Pieces | Pallet Quantity |
|--------|---------------------------|----------|--------|-----------------|
| 066008 | BLU FILTER CLEANER Liquid | CA, 10 l | - | 400 l |

F

OXICLEAR FILTER

UFI code: UED0-D06J-Y000-WRMW

A special product that develops specific active oxygen for regenerating filters contaminated by biofilm.

| Code | Description | Package | Pieces | Pallet Quantity |
|-----------|------------------------|----------|--------|-----------------|
| 010612006 | OXICLEAR FILTER Liquid | CA, 10 l | - | 400 l |

SPECIAL PRODUCTS

F

OXICLOR 10 EVOLUTION



The product complies with Regulation 528/2012 Biocides.
The product complies with EN 901 Chemicals used for treatment of water intended for human consumption - Sodium hypochlorite

Case numbers in Italy BC-NB046048-51 F2_PT02

UFI code: F9A0-Q0XN-900N-C729

Liquid oxidant based on stabilized chlorine oxides and anti-scale agents. It is ideal for shock treatments in the pool. With anti-scale agent.
After treatment, there is no need for long dechlorination times.
Its special formula prevents deposits from forming in the injection points of dosing pumps.



| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|-----------------------------|----------|------------|-----------------|
| 010606004 | OXICLOR 10 EVOLUTION Liquid | CA, 5 l | - | 560 l |
| 010606006 | OXICLOR 10 EVOLUTION Liquid | CA, 10 l | - | 400 l |

BAR SAN

A product based on active oxygen and organic peracids.
Special formulation for regenerating filter media
Caution: check the compatibility of materials before use

| Code | Description | Package | Pieces/Box | Pallet Quantity |
|-----------|-------------|----------|------------|-----------------|
| 180301012 | BAR SAN | CA, 10 l | - | 400 l |



CLEANING AND SURFACE TREATMENT

CLEANERS AND DISINFECTANTS

CLEANING AND SURFACE TREATMENT

CLEANERS, FUNGICIDES AND DISINFECTANTS

Barchemicals Group has been operational for more than 30 years in the primary, drinking and swimming pool water treatment sector, with particular focus on the water treatment, control systems, measurement and automation.

One of its greatest areas of success is environmental sanitizing and hard surface cleaning, for which it has provided a vast range of solutions for every kind of problem over the years.

The aim of cleaning hard surfaces is to get rid of as much surface pollution as possible in order to make disinfection as effective as possible. Cleaners with different physical and chemical properties are used, depending on the kind of dirt and type of surface. They are always formulated to guarantee the best results with minimum impact on the surface being treated and the environment, in line with our constant commitment to making our products always GREENER.

We can basically split the cleaners into four categories:

- **Acid-based cleaners:** suitable for breaking up limescale or inorganic dirt;
- **Alkaline-based cleaners:** suitable for degreasing surfaces covered in organic and protein-based dirt;

- **Neutral cleaners:** normally suitable for organic or protein-based dirt, but simply solubilizing the dirt, not necessarily breaking it up.
- **Solvent based cleaners:** normally these are only degreasers, but some patented formulae like, e.g. "MAGO", can work simultaneously as a degreaser and descaler thanks to the combined action of the solvent base and the acidic or basic base.

Furthermore, cleaners must contain other extremely important substances such as surfactants to keep the dirt in suspension, anti-redeposition agents to prevent scaling, and corrosion inhibitors to reduce the aggressive effect of cleaners on hard surfaces.

All Barchemicals products meet these requirements, reducing costs and maintenance time.

In some cases, cleaners even combine a powerful bactericidal capacity, especially when the surfactant is cationic. Colours, perfumes and other products may be added to complement the effectiveness of the product.



A wide range of products for disinfecting and cleaning sports centres, swimming pools, gyms and spas



SURFACE CLEANING AND TREATMENT

TOP
PRODUCT!

TITANIUM LINE

Chemicals for swimming pools

High-tech line of cleaning products enriched with photocatalytic titanium for hard surfaces.

- Products in the **Titanium Line** are specially formulated to make treated surfaces self-cleaning
- Repeated use of these products reduces cleaning and makes it easier because they deposit micro-metric titanium.
- When in contact with sunlight, the photocatalytic titanium particles emit free radicals capable of making the treated surface self-cleaning
- The superhydrophilicity of titanium allows the water to run away, quickly leaving surfaces clean and dry
- All the active photocatalytic components used are micrometric in size, which eliminates the risk of potential nanotoxicity.

How it works:

While cleaning, products in the Titanium line deposit a molecular layer of titanium on the treated surface to ensure long-term action.

- Ti-WIZ

A special product for descaling and degreasing hard surfaces and pool edges.

The special balanced formula of Ti-Wiz quickly removes limescale and greasy dirt at the same time.

- Ti-DET

Ti-Det is used to remove residual grease that clings to the walls of swimming pools. Its special formula contains photocatalytic titanium to give the treated surfaces self-cleaning properties.



F

TITANIUM LINE

TI WIZ

UFI Code: FDE0-X0SX-A00F-5H1M

TI DET

UFI Code: W6E0-X0E4-Q00F-UTVG

| Code | Description | Package | Pcs /Box | Pallet Quantity |
|-----------|-------------|----------|----------|-----------------|
| 044004004 | Ti-WIZ | CA, 10 l | - | 400 l |
| 044006002 | Ti-DET | B0, 1 l | 4 | 300 pcs |

MOULD PREVENTION

MOLD STOP

UFI Code: A8K0-T04J-S00N-VY89

A product based on photocatalytic titanium to prevent mould on hard surfaces. Odourless. MOLD STOP spray acts on any type of surface.

All areas where it is used are immediately viable and habitable, making the product particularly suitable for use in living rooms, bedrooms, bathrooms, etc. Photocatalytic titanium makes the product act exceptionally quickly and ensures its action persists, even for days.



F

| Code | Description | Package | Pieces | Pallet quantity |
|-----------|-------------|---------|------------------|-----------------|
| 020208002 | MOLD STOP | B0, 1 l | 2 B0 + 2 trigger | 300 pcs |

SURFACE CLEANING AND TREATMENT

DISINFECTANTS AND SANITIZERS FOR HARD SURFACES

DISINFECTANTS
FOR SURFACESMEDICAL AND SURGICAL
DEVICE

ERGOSAN PROFUMATO

**Medical and Surgical Device - Italian Ministry of Health Reg. No. 18129****PINE** - UFI code: 3MG0-30R8-900A-DD69**LEMON** - UFI code: 8HG0-M01U-Y00U-Q1M7**LIGHT** - UFI code: 6DC0-90WT-9002-YNN4

Disinfectant based on poly quaternary ammonium salts. It is ideal for eliminating stale smells in changing rooms, showers and closed environments in general. The high concentration of quaternary ammonium salts makes **ERGOSAN PROFUMATO**, particularly suitable for all cleaning where, in addition to a cleaning action, an effective disinfectant action is required. The pleasant scent makes ERGOSAN PROFUMATO particularly suitable for use in closed and foul-smelling environments. It has a high content of quaternary ammonium salts to deodorize environments and surfaces by blocking bacterial fermentation.



| Code | Description | Package | Pcs/Box | Pallet quantity |
|--------|---------------------------------------|----------|---------|-----------------|
| 034027 | ERGOSAN PROFUMATO MENTHOLATED PINE 20 | B0, 1 l | 20 | 300 pcs |
| 034011 | ERGOSAN PROFUMATO MENTHOLATED PINE 20 | CA, 10 l | - | 400 l |
| 035011 | ERGOSAN PROFUMATO LIGHT 20 | CA, 10 l | - | 400 l |
| 035L11 | ERGOSAN PROFUMATO LEMON 20 | CA, 10 l | - | 400 l |

Product for professional and domestic use.

SEPTISOL

UFI code: YSD0-D0Y5-6000-J3Y5

75% w/w hydroalcoholic solution in isopropyl alcohol and 0.1% w/w benzalkonium chloride. Its cleaning properties ensure a good sanitizing action on treated surfaces. Ready to use.

The formulation complies with WHO recommendations

| Code | Description | Package | Pcs/Box | Pallet quantity |
|-----------|-----------------------|----------|---------|-----------------|
| 116003008 | SEPTISOL REFILL | B0, 1 l | 4 | 240 pcs |
| 116003006 | SEPTISOL WITH TRIGGER | B0, 1 l | 4 | 240 pcs |
| 116003004 | SEPTISOL | CA, 10 l | - | 400 l |



SURFACE CLEANING AND TREATMENT

DESCALERS AND CLEANERS
WITH SANITIZING EFFECT

PULIDETER

UFI code: H0D0-U0RK-E00J-K1QK

PULIDETER is a concentrated liquid cleaner with descaling and degreasing properties. It is used in many cases such as for cleaning ceramic and stainless steel sinks, ceramic tiles, chrome taps, and to remove limescale stains from red stoneware, Florentine terracotta or klinker floors. It removes iron stains from bathroom fittings. **It does not corrode chrome.**



F

| Code | Description | Package | Pcs/Box | Pallet quantity |
|--------|-------------|------------|---------|-----------------|
| 001001 | PULIDETER | BO, 0.75 l | 12 | 300 pcs |
| 001010 | PULIDETER | CA, 10 l | - | 400 l |

DR 84 SUPER

UFI code: J170-G0QJ-N00U-77WU

A cleaner and descaler based on inhibited mineral acids for cleaning ceramic stoneware, Florentine terracotta and klinker floors. The special balanced formula of **DR 84 SUPER** quickly removes any kind of limescale. Corrosion inhibitors delay any surface corrosion.



F

| Code | Description | Package | Pcs/Box | Pallet quantity |
|--------|-------------|----------|---------|-----------------|
| 040011 | DR 84 SUPER | CA, 10 l | - | 400 l |

MAGO

UFI code: MQE0-Y0JH-J00E-TVCV

Descaler-cleaner with a powerful descaling and degreasing action for cleaning klinker, ceramic stoneware and Florentine terracotta walls and tops. It simultaneously removes limescale and organic dirt residues from surfaces in a single step. Corrosion inhibitors delay any surface corrosion.



F

| Code | Description | Package | Pcs/Box | Pallet quantity |
|--------|-------------|----------|---------|-----------------|
| 044011 | MAGO | CA, 10 l | - | 400 l |

SURFACE CLEANING AND TREATMENT

F33

UFI code: FGC0-T0M6-K00K-M076

Special descaler for eliminating very stubborn iron-silicon encrustations. **Use it with caution and do a small compatibility test on the surface to be treated before use.** The special balanced formula of **F33** quickly removes even the most stubborn iron-silicon-sulphate encrustations. Corrosion inhibitors delay any surface corrosion.



F

| Code | Description | Package | Pcs/Box | Pallet quantity |
|--------|-------------|----------|---------|-----------------|
| 045011 | F33 | CA, 10 l | - | 400 l |

BLU FILTER CLEANER

UFI Code: OS10-M0MA-Y00N-VECW

A special cleaning product for looking after and cleaning filters. It simultaneously removes both limescale and organic residues from filters. Its strong cleaning action and extreme pH means it also sanitizes the filtration surface.

To obtain the best disinfection results, we recommend using **BLU FILTER CLEANER** followed by further treatment with OXICLOR 10 EVOLUTION or OXICLEAR FILTER.



F

| Code | Description | Package | Pcs/Box | Pallet quantity |
|--------|---------------------------|----------|---------|-----------------|
| 066008 | BLU FILTER CLEANER liquid | CA, 10 l | - | 400 l |

PULSAR CLEANER

UFI Code: VUJ0-80PK-8006-K8AY

A specific descaler to remove limescale in DDS LINE automatic dosing units (DDS EVOLUTION, DDS ECO WASH, DDS 3000 and DDS MULTIACTION). It neutralizes chlorine vapours that develop during cleaning.



F

| Code | Description | Package | Pcs/Box | Pallet quantity |
|-----------|----------------|----------|---------|-----------------|
| 220504011 | PULSAR CLEANER | CA, 10 l | - | 400 l |

SURFACE CLEANING AND TREATMENT CLEANERS FOR HARD SURFACES AND FLOORS

F FLOOR 2000 PROFUMATO

UFI code: 33G0-20KV-F00C-EAPW

Universal degreaser.

Thanks to its special formula, **FLOOR 2000 PROFUMATO** can be used as a degreaser and sanitizer to tackle a wide variety of cleaning problems. It is particularly suitable for kitchen floors, very dirty surfaces and in general whenever the dirt is mainly organic.

FLOOR 2000 PROFUMATO is widely used as a dewaxing cleaner for normal and metallic waxes.



| Code | Description | Package | Pcs/Box | Pallet quantity |
|--------|----------------------|----------|---------|-----------------|
| 002M11 | FLOOR 2000 PROFUMATO | CA, 10 l | - | 400 l |

F PULIFRESH 94/V

Perfumed cleaner for gyms and changing rooms

Low-foam perfumed liquid cleaner for cleaning floors (marble, ceramic, terracotta) and washable hard surfaces.



| Code | Description | Package | Pcs/Box | Pallet quantity |
|--------|----------------|----------|---------|-----------------|
| 003311 | PULIFRESH 94/V | CA, 10 l | - | 400 l |

F CRISTALL SLIP

UFI code: 6RJ0-S005-X00P-WWRW

CRISTALL SLIP surface cleaner replaces alcohol in cleaning.

Non-flammable. It is widely used for cleaning glass, crystal, mirrors, desks and glazed and polished surfaces in general. It does not stain, corrode or leave streaks, and removes graphite and marker stains from counters and fabrics.



| Code | Description | Package | Pcs/Box | Pallet quantity |
|--------|---------------|---------|---------|-----------------|
| 005002 | CRISTALL SLIP | B0, 1 l | 20 | 300 pcs |

F DETERPOOL

UFI code: 9P30-R0T2-Q00H-EX6A

Cleaner formulated to remove the black line made up of residual grease that clings to the walls of swimming pools.

Diluted to 10% in water, it sanitizes and cleans floors, loungers and plastic sunbeds.



| Code | Description | Package | Pcs/Box | Pallet quantity |
|--------|-------------|----------|---------|-----------------|
| 047001 | DETERPOOL | B0, 1 l | 20 | 300 pcs |
| 047011 | DETERPOOL | CA, 10 l | - | 400 l |

SURFACE CLEANING AND TREATMENT

XR 300

UFI code: XHK0-A06R-Q005-V00G

Highly concentrated cleaner with strong basic pH for removing organic dirt and grease. It is low-foaming, making it suitable for use with pressure washers. The special formulation of **XR 300** makes it particularly suitable for cleaning and sanitizing slaughterhouses, rubbish bins, livestock facilities, or in general where powerful degreasing and emulsifying is required.

Quaternary ammonium salts enhance its deodorizing properties.



F

| Code | Description | Package | Pcs/Box | Pallet quantity |
|----------|-------------|----------|---------|-----------------|
| 011012LT | XR 300 | CA, 10 l | - | 400 l |

SPECIAL PRODUCTS

F21 SOLUTION

UFI code: EYE0-G0MQ-F00W-TW42

Concentrated cleaner and descaler for cleaning electrodes and other laboratory glassware. **F21** cleans and descales electrodes, restoring them to the best condition for use.



F

| Code | Description | Package | Pcs/Box | Pallet quantity |
|-----------|--------------|---------|---------|-----------------|
| 050506002 | F21 SOLUTION | B0, 1 l | 4 | - |

AS 20

UFI Code: 3WM0-E083-M002-FFAH

Silicone-based defoamer liquid.

It is a concentrated product for industrial use, to be used whenever foam prevention or reduction is required.



F

| Code | Description | Package | Pcs/Box | Pallet quantity |
|-----------|-------------|----------|---------|-----------------|
| 220608002 | AS 20 | B0, 1 l | 4 | 300 pcs |
| 055011 | AS 20 | CA, 10 l | - | 400 l |

SURFACE CLEANING AND TREATMENT

HANDBOOK FOR RAPID TREATMENT OF HARD SURFACES: Use cleaners, disinfectants and fungicides

| | ERGOSAN PROFUMATO Fungicidal disinfectant. Min. of Health Reg. | MAGO Inhibited descaler. | DETERPOOL Cleaner for pool edges. |
|----------------------------|--|--|--|
| What it is used for | For hard disinfecting surfaces (changing rooms, gyms etc.) | For thoroughly cleaning swimming pool walls. | For eliminating the "black line" that forms around the pool waterline. |
| How to use it | 1% diluted in water. Dampen or spray onto the surfaces. | 30% diluted in water directly onto the walls. | A few drops on a sponge to dissolve the grease. |
| Dosages | 1% solution in water. | 30–50%, depending on the amount of dirt. | A few drops on a sponge. |
| When needed | After every daily clean. | Whenever the pool is emptied or the walls and bottom have to be cleaned. | Weekly or as needed. |
| Precautions for use | Avoid eye or skin contact | Avoid eye or skin contact | Avoid eye or skin contact |

N.B. - Before using any product, always test it on a small part of the surface to assess what effect it has.

ANTICOVID-19 LINE

HAND HYGIENE

SEPTISOL WHO C

UFI Code: 1SG0-4041-W00A-Q2CE

Formula CPNP registration No. 3306667

Hydroalcoholic hand lotion with 75% isopropanol by volume.

Cleaning and sanitizing action

Cosmetic product



F

| Code | Description | Package | Pcs/Box | Pallet quantity |
|-----------|--------------------------|---------|---------|-----------------|
| 116006016 | SEPTISOL WHO C C/TRIGGER | B0, 1 l | 4 | 288 pcs |
| 116006010 | SEPTISOL WHO C | CA, 5 l | - | 300 l |

SURFACE HYGIENE

SEPTISOL

UFI code: YSD0-D0Y5-6000-J3Y5

75% w/w hydroalcoholic solution in isopropyl alcohol and 0.1% w/w benzalkonium chloride. Its cleaning properties ensure a good sanitizing action on treated surfaces. Ready to use.

The formulation complies with WHO recommendations



F

| Code | Description | Package | Pcs/Box | Pallet quantity |
|-----------|--------------------|----------|---------|-----------------|
| 116003008 | SEPTISOL REFILL | B0, 1 l | 4 | 288 pcs |
| 116003006 | SEPTISOL C/TRIGGER | B0, 1 l | 4 | 288 pcs |
| 116003004 | SEPTISOL | CA, 10 l | - | 400 l |



MEASUREMENT

MEASUREMENT, ANALYSIS AND CONTROL

MEASUREMENT

MEASUREMENT, ANALYSIS AND CONTROL

There are various test and photometric kits available for checking the physical-chemical parameters of pool water.

Checking the pH parameters is essential in order to monitor the water quality and optimize the chemical dosage. To make the measurement, a tablet of the specific reagent has to be added.

The recommended amount of free chlorine in the swimming pool is normally 1 ppm



The ideal pH level should always be in the range 7.0 to 7.4.

MD110 6 IN 1 PHOTOMETER

Chlorine, bromine, pH, cyanuric acid, alkalinity M, calcium hardness.

The strengths of the MD110 make it a reliable companion for all users.

• Waterproof design

With a protection level of IP 68, the MD110 is waterproof for up to one hour to a depth of 0.1 m, so there is no need to worry if you drop the device into the water - it will float.

• Accurate and repeatable measurement results

LEDs and noise filters are used on the MD110. This guarantees good results at any time.

• User calibration

Single point calibration is possible. In addition, all variations of the MD110 display the measurement results directly in ABS or %T form.

• One Time Zero (OTZ)

No need to waste time with a new zero adjustment after each test. Once executed, the zero value remains valid for all tests with the same sample.

• Automatic measurement storage with optional data transmission

The MD110 automatically stores the last 16 measurements with indication of the time and date. These results can be transferred to a table using the IRiM module.

• Ergonomic design

Regardless of whether you use the MD110 in the laboratory or directly at the sample collection site, it is designed to offer easy management and unlimited viewing on the display at any time. In the laboratory, the instrument has rubber feet on the bottom to prevent it from slipping accidentally.

• Ex-factory programming

The MD110 instrument is programmed in the factory with up to 6 pre-calibrated measurement methods. So, all you need to do after receiving your instrument is: Select the test, prepare the sample and perform the test!

• Memory scrolling

When the instrument is switched on, it automatically displays the last method selected before it was switched off. This provides fast access to your favourite methods.

APPLICATION

Boiler water | Cooling water | Pool water check | Disinfectant check | Pool water treatment | Drain water treatment | Non-purified water treatment | Drinking water treatment.



SUPPLY

- Instrument in a plastic case with 4 micro batteries (AAA)
- 100 DPD No.1 reagent tablets
- 100 DPD No.3 reagent tablets
- 100 Phenol Red reagent tablets
- Photometer
- 100 CyA-Test reagent tablets
- 100 Alka-M reagent tablets
- Photometer
- 100 Calcio-H No.1 reagent tablets
- 100 Calcio-H No.2 reagent tablets
- 3 round cuvettes (glass) with caps
- Sealing rings
- 1 stirring rod
- 1 dosing syringe (5 ml)
- Instructions for use
- Method Manual
- Certificate (COC)
- Warranty statement

| Test Name | Measurement range | Chemical method |
|---------------------|----------------------------------|-----------------|
| Alkalinity M T | 5 – 200 mg/l CaCO ₃ A | Acid/indicator |
| Bromine T | 0.05 – 13 mg/l Br ₂ | DPD |
| Chlorine HR T | 0.1 – 10 mg/l Cl ₂ | DPD |
| Chlorine L | 0.02 – 4.0 mg/l Cl ₂ | DPD |
| Chlorine T | 0.01 – 6.0 mg/l Cl ₂ | DPD |
| CYA T | 10 – 160 mg/l CyA | Melamine |
| Calcium hardness 2T | 20 – 500 mg/l CaCO ₃ | Murexide |
| pH L | 6.5 – 8.4 pH | Phenol red |
| pH T | 6.5 – 8.4 pH | Phenol red |

| Code | Description |
|-----------|---|
| 050219001 | MD110 6 IN 1 PHOTOMETER (Chlorine-Bromine-pH-CyA-Alkalinity-Hardness) |

MEASUREMENT AND ANALYSIS

POOL LAB 1.0 PHOTOMETER

Waterproof electronic tester for swimmingpools

The new PoolLab® 1.0 is a single-wavelength photometer for professional water analysis in private and public pools, and hot tubs.

An integrated but replaceable cuvette samples the water quickly when the waterproof IP67 PoolLab® photometer is immersed.

With 6 buttons, the PoolLab® is designed to provide immediate access to the following pre-installed parameters: pH, Chlorine (free/combined/total), Alkalinity (Acid Capacity), Cyanuric acid (Stabilizer), Active oxygen (MPS), Bromine, Chlorine dioxide, Ozone and Hydrogen peroxide.

Bluetooth 4.0 wireless technology ensures that PoolLab® can easily be connected to software and the free application for managing test results.

Once the results of the analyses have been synchronized, the software and app provide recommendations on product dosing and chemical treatments, based on the individual parameters entered. The user can then print reports of the results obtained, and calculate the LSI and other indices.

PARAMETERS

- **Chlorine** (free/combined/total) - range 0.00 – 6.00 mg/l (ppm)
- **Alkalinity** (Acid Capacity) - range 0 – 300 mg/l (ppm) CaCO₃
- **Cyanuric Acid** (Stabilizer) - range 0 – 160 mg/l (ppm)
- **Active oxygen** (MPS) - range 0.0 – 30.0 mg/l (ppm)*
- **Bromine** - range 0.0 – 13.5 mg/l (ppm)



- **Chlorine dioxide** - range 0.0 – 11.4 mg/l (ppm)
- **Ozone** - range 0.0 – 4.0 mg/l (ppm)
- **Hydrogen peroxide** - range 0.0 – 2.9 mg/l (ppm)



| Code | Description |
|-----------|-------------------------|
| 050219004 | POOL LAB 1.0 PHOTOMETER |

MEASUREMENT AND ANALYSIS

MULTITEST RX 2001 PLUS

Case. Electronic kit for checking the following parameters:

- Free Chlorine
- Bound Chlorine
- Total Chlorine
- pH
- Temperature
- Redox Potential

Compsed of a compact monobloc that includes:

- Colourimeter
- pH meter
- Rx meter
- Electronic probe thermometer

The case is sold with the following contents:

- Multitest Rx 2001 reading instrument
- DPD1 A-Barchemicals reagent
- DPD 3-Barchemicals reagent
- START Barchemicals reagent
- Temperature probe
- pH probe
- Redox probe
- DLC/BNC shielded lead, 1 m long
- Buffer solution, pH7 and pH9
- Redox buffer solution
- Beaker
- Multitest Glass Test-tube
- Nitrate Kit
- Ammonia Kit
- Cyanuric Acid Minikit
- Manual in Italian



| Code | Description |
|--------|--------------------------------------|
| 078019 | MULTITEST RX 2001 PLUS COMPLETE CASE |

REPLACEMENTS FOR RX 2001 PLUS MULTITEST AND PHOTOMETERS

| Code | Description | Package | MEASUREMENT UNIT |
|-----------|--|---------|------------------|
| 078001 | DPD 1A REPLACEMENT - Barchemicals | 1 PC | PCS |
| 078003 | DPD 3 REPLACEMENT - Barchemicals | 1 PC | PCS |
| 078007 | START REPLACEMENT - Barchemicals | 1 PC | PCS |
| 078022 | CLORO MENO REPLACEMENT - Barchemicals | 1 PC | PCS |
| 260204080 | pH4 BUFFER SOLUTION - B0, 90 ml | 1 PC | PCS |
| 260204056 | pH7 BUFFER SOLUTION - B0, 90 ml | 1 PC | PCS |
| 260204058 | pH9 BUFFER SOLUTION - B0, 90 ml | 1 PC | PCS |
| 260204060 | Redox BUFFER SOLUTION | 1 PC | PCS |
| 050506002 | F21 SOLUTION - B0, 1 L | 4 PC | PCS |
| 260299076 | pH ELECTRODE - GLASS - DLG/BNC | 1 PC | PCS |
| 260299080 | RX ELECTRODE - GLASS - DLG/BNC | 1 PC | PCS |
| 050308002 | DLG/BNC SHIELDED LEAD - 1 M | 1 PC | PCS |
| 050308001 | DLG/BNC SHIELDED LEAD - 2 M | 1 PC | PCS |
| 050308010 | DLG/BNC SHIELDED LEAD - 5 M | 1 PC | PCS |
| 050404008 | LOVIBOND MULTIPLE PHOTOMETER TEST TUBE | 1 PC | PCS |
| 440402815 | POOL LAB PHOTOMETER TEST TUBE | 1 PC | PCS |
| 050204006 | MULTITEST RX 2001 TEST TUBE - 16X73 | 1 PC | PCS |

MEASUREMENT AND ANALYSIS

TESTER SERIES

Waterproof electronic tester for swimmingpools

Waterproof Microprocessor TESTER.
Available in versions for salt (TDS) and pH.
Device with automatic LCD display.
IP-57 standard impermeability.



F

| Code | Description |
|------------|------------------------------|
| 0123156052 | ELECTRONIC SALT TESTER (TDS) |
| 0123156053 | ELECTRONIC pH TESTER |

REAGENTS FOR CHLORINE CONTROLLERS



START

6.5 pH buffer solution to make the chlorine reading with DPD comply with the official IRSA method.
Bottle: 1 l



DPD 1 A+B

Reagent for analysing chlorine.
It is supplied in DRY form.
To be dissolved in the corresponding diluent.
The solution is to be prepared on the spot.
Bottle: 1 l (1 single-dose packet of powder + 1 bottle of solvent)



DPD 3 A+B

Reagent for analysing total and combined chlorine.
It is supplied in DRY form.
To be dissolved in the corresponding diluent.
The solution is to be prepared on the spot.
Bottle: 1 l (1 bottle of powder + 1 bottle of solvent)



F

| Code | Description |
|-----------|---|
| 050502012 | START REPLACEMENTS FOR CONTR.- BO, 1 l - QUADRA - Pack of 4 x 1 l bottles |
| 050502010 | DPD1A REPLACEMENTS FOR CONTR.- BO, 1 l - QUADRA - Pack of 4 x 1 l bottles |
| 050502014 | DPD3 REPLACEMENTS FOR CONTR.- BO, 1 l - QUADRA - Pack of 2 x 1 l bottles |

MEASUREMENT AND ANALYSIS

| Code | Description |
|------------|---|
| 075002 | TABLET-BASED POOL TESTER FOR CHLORINE/pH |
| 076020 | REPLACEMENT DPD1 TABLETS - RAPID - 250 PCS FOR POOL TESTER |
| 076023 | REPLACEMENT DPD3 TABLETS - RAPID - 250 PCS FOR POOL TESTER |
| 076027 | REPLACEMENT RED pH TABLETS - RAPID - 250 PCS FOR POOL TESTER |
| 076025 | REPLACEMENT DPD4 TABLETS - RAPID - 250 PCS FOR POOL TESTER |
| 076021 | REPLACEMENT DPD 1 TABLETS - for Photometer - Pack of 250 pcs |
| 076022 | REPLACEMENT DPD 3 TABLETS - for Photometer - Pack of 250 pcs |
| 0760026 | REPLACEMENT PHENOL RED TABLETS - for Photometer - Pack of 250 pcs |
| 076038 | REPLACEMENT ALKA-M TABLETS - for Photometer - Pack of 100 pcs |
| 076034 | CALCIUM COMBI_PACK - for Photometer - Pack of 100 pcs |
| 076030 | REPLACEMENT DPD4 OXYGEN+pH BLISTER PACK (30+30 tablets) |
| 0123056073 | CHLORINE /pH DROPS TEST KIT |
| 0123056072 | REPLACEMENT OTO + RED PHENOL DROPS |
| 079001 | REPLACEMENT OTO DROPS - 15 cc |
| 079002 | REPLACEMENT RED DROPS - 15 cc |
| 0123056076 | TABLET-BASED pH/OXYGEN TEST KIT |
| 0123056084 | TABLET-BASED pH/BROMINE/CHLORINE TEST KIT |
| 050402006 | CYANURIC ACID MINI KIT |
| 050502004 | REPLACEMENT CYANURIC ACID TABLETS, 250 PCS |



| Code | Description |
|-----------|---------------------------------------|
| 05040200 | IRON KIT - BARCHEMICALS |
| 05040201 | CHLORIDE KIT - BARCHEMICALS |
| 05040202 | TOTAL ALKALINITY KIT - BARCHEMICALS |
| 05040210 | BOILER ALKALINITY KIT - BARCHEMICALS |
| 05040212 | BOILER HARDNESS KIT - BARCHEMICALS |
| 05040204 | HARDNESS KIT - BARCHEMICALS |
| 05040206 | AMMONIA KIT - BARCHEMICALS |
| 05040207 | SILICA KIT - BARCHEMICALS |
| 05040215 | NITRATES KIT - BARCHEMICALS |
| 05040214 | NITRITES KIT - BARCHEMICALS |
| 05040213 | PHOSPHATES KIT 1-20 P - BARCHEMICALS |
| 050402008 | PHMB TEST (BIGUANIDE, pH, ALKALINITY) |
| 05040211 | CHROMATES KIT - BARCHEMICALS |
| 05040203 | SULPHATES KIT - BARCHEMICALS |
| 05040216 | BOILER pH KIT 1-11 - BARCHEMICALS |



| Code | Description |
|-----------|---|
| 440402646 | QUANTOFIX - 100 PPM PEROXIDE TEST STRIPS - PACK OF 100 |
| 440402647 | QUANTOFIX - 5-50 PERACETIC ACID TEST STRIPS - PACK OF 100 |



MAINTENANCE HANDBOOK FOR PRIVATE SWIMMING POOLS TREATED WITH CHLORINE

IDEAL LEVELS:

- **pH: 7.0–7.4**
- **Active Free Chlorine: 1.2 –1.5 ppm (mg/l)**
- **Combined or bound chlorine: max 0.4 ppm (mg/l)**

ROUTINE WORK AT THE START OF THE SEASON

a) Initial chemical treatments

1. Completely emptying the pool.
2. In-depth cleaning of the walls and bottom of the swimming pool using specific products: MAGO and DR 84
3. Cleaning the black line that forms at the waterline around the pool due to the greases on the surface of the water (DETERPOOL).
4. Initial shock treatment on the pool walls to prevent algae using products such as EXPOSAN RB1.
5. Filling the pool WITH DRINKING WATER.
6. Correcting the pH to the optimum values of 7.0–7.4.
7. Initial shock treatment in new water to bring the active free chlorine high enough to ensure safe disinfection of all the water in the pool, including the plumbing circuit. This treatment is to be performed with specifically designed and formulated products (OXICLOR 10 and EXPOSAN RB1).

b) Maintenance on the filtration system

Checking filters:

QUARTZ SAND/BIOVITRUM (AG+; TI; SFERE) FILTERS: after opening them, check the filter media levels and how clean they are. If the quartz sand is packed, proceed in one of the following two ways:

1. If it is only packed slightly, it can be fully washed with a product specifically designed for this purpose (BLU FILTER CLEANER).
2. If, instead, it is strongly packed, all the sand has to be removed and replaced with new sand or another more suitable filter medium such as BioVitrum (AG+; TI; SFERE).

Furthermore, check that the inside the filter is in good condition and free from ferruginous deposits that could be hazardous sites for micro-organisms to nest.

DIATOMACEOUS EARTH FILTERS: check that the filtration equipment is clean and in good condition, and wash the bags and renew the diatomaceous earth if necessary.

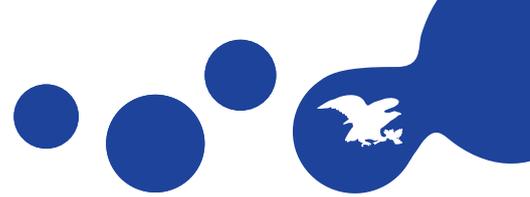
c) The pool is ready...

1. Stabilizing the parameters at the ideal levels to ensure that the water is effective against bacteria and make it more crystal-clear and transparent.
2. Once the pool is operational, maintain the aforementioned optimal chlorine and pH levels using chlorine-based products (BICLOR 56 – TRICLOR 90 - QUASAR) and buffered, formulated pH correctors (EXPO pH NEW BLU, EXPO pH special, ALL IN ONE).
3. Check the parameters using the appropriate colourimetric systems (optical or photometric), such as POOL LAB 1.0 PHOTOMETER or MULTITEST RX 2001 PLUS.
4. Anti-algae: weekly maintenance dosage (EXPOSAN RB1, EXPOSAN C91).
5. Alternate different molecules to prevent acquired resistance (EXPOSAN C91, alternated with EXPOSAN RB1).

In the event of problems regarding water appearance during the summer period, see Practical Advice.

d) Disinfecting hard surfaces

To disinfect hard surfaces adjoining the pool, where people walk in bare feet, we recommend using products based on poly quaternary ammonium salts (ERGOSAN PROFUMATO).



CLOSING THE POOL

At the end of the season, close the pool as follows:

1. The pool has to be operational. Do not turn off the recirculation pumps or close the valves that regulate the pool water inlet and outlet.
2. Set the selector valve located near the filter to the "Filtration" position.
3. Visually check that the water quality is good and crystal-clear. If not, perform shock treatment with OXICLOR 10 EVOLUTION as well as the procedure described above.
4. When the water is healthy, add a winterizer (WINTER P) to maintain the carbonates in solution. This will prevent limescale from depositing and building up layers on the pool walls, resulting in a limescale layer that would be difficult to remove when the swimming pool is re-opened. Furthermore, this limescale layer would be an excellent medium on which algae can form. Dosage = 1 l per 10 m³ of water.
5. Add an algaecide such as BLU DELUXE for swimming pools treated with chlorine, or BIOSAN for swimming pools treated with electrolysis. Dosage of 0.5 l per 10 m³ of water for BLU DELUXE, or 20 g/m³ for BIOSAN.
6. Leave the pool running for about 2 hours.
7. Then turn off the recirculation pumps and close all the valves. Unscrew and remove the top cover on the filters, then open the plug at the bottom of the filters to drain the water. This is essential to prevent the pockets of bacteria from forming in the gaps between the quartz sand grains during winter closure.
8. Dismantle the recirculation pumps from the circuit, empty them, clean them thoroughly and put them away.
9. Lower the water level in the pool so that it is below the skimmers.
10. If there is one, fit the winter cover over or close the floating roller shutter.

IDEAL VALUES FOR SWIMMING POOLS TREATED WITH BROMINE:

- **pH: 7.0–7.4**
- **Bromine: 1.5 – 2.00 ppm (mg/l)**

MAINTENANCE HANDBOOK FOR PRIVATE SWIMMING POOLS TREATED WITH OXYGEN

IDEAL LEVELS:

- **pH: 7.0–7.4**
- **Oxygen: 30 – 100 ppm (mg/l)**

ROUTINE WORK AT THE START OF THE SEASON

a) Initial chemical treatments

1. Completely emptying the pool.
2. In-depth cleaning of the walls and bottom of the swimming pool using specific products: MAGO and DR 84
3. Cleaning the black line that forms at the waterline around the pool due to the greases on the surface of the water (DETERPOOL).
4. Initial shock treatment on the pool walls to prevent algae using BIOSAN.
5. Filling the pool WITH DRINKING WATER.
6. Correcting the pH to the optimum values of 7.0–7.4.
7. Initial shock treatment in new water to bring the active free chlorine high enough to ensure safe disinfection of all the water in the pool, including the plumbing circuit. This treatment is to be performed with specifically designed and formulated products (BIOZONO Ag+ ISDV / BIOZONO Ag+ 12% ISDV and BIOSAN).

b) Maintenance on the filtration system

Checking filters:

QUARTZ SAND/BIOVITRUM (AG+; TI; SFERE) FILTERS: after opening them, check the filter media levels and how clean they are. If the quartz sand is packed, proceed in one of the following two ways:

1. If it is only packed slightly, it can be fully washed with a product specifically designed for this purpose (BLU FILTER CLEANER).
2. If, instead, it is strongly packed, all the sand has to be removed and replaced with new sand or another more suitable filter medium such as BioVitrum (AG+; TI; SFERE).

Furthermore, check that the inside the filter is in good condition and free from ferruginous deposits that could be hazardous sites for micro-organisms to nest.

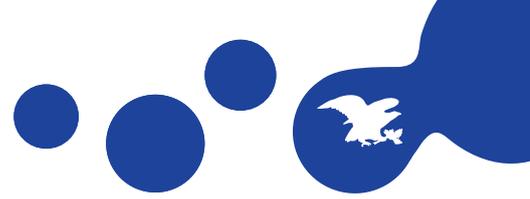
DIATOMACEOUS EARTH FILTERS: check that the filtration equipment is clean and in good condition, and wash the bags and renew the diatomaceous earth if necessary.

c) The pool is ready...

1. Stabilizing the parameters at the ideal levels to ensure that the water is effective against bacteria and make it more crystal-clear and transparent.
2. Once the pool is operational, maintain the aforementioned optimal chlorine and pH levels using OXYGEN-based products (BIOZONO Ag + ISDV / BIOZONO Ag + 12% ISDV) and pH correctors specifically for this treatment (BIOACID / BIOACID SPECIAL / ALL IN ONE ELETTRIO).
3. Check the parameters using the appropriate optical or photometric systems for the pH, and Quantofix test strips for the oxygen.
4. Anti-algae: weekly maintenance dosage (EXPOSAN RB1, EXPOSAN C91).

d) Disinfecting hard surfaces

To disinfect hard surfaces adjoining the pool, where people walk in bare feet, we recommend using products based on poly quaternary ammonium salts (ERGOSAN PROFUMATO).



CLOSING THE POOL

At the end of the season, close the pool as follows:

1. The pool has to be operational. Do not turn off the recirculation pumps or close the valves that regulate the pool water inlet and outlet.
2. Set the selector valve located near the filter to the "Filtration" position.
3. Visually check that the water quality is good and crystal-clear. If not, perform shock treatment with OXICLOR 10 EVOLUTION as well as the procedure described above.
4. When the water is healthy, add a winterizer (WINTER P) to maintain the carbonates in solution. This will prevent limescale from depositing and building up layers on the pool walls, resulting in a limescale layer that would be difficult to remove when the swimming pool is re-opened. Furthermore, this limescale layer would be an excellent medium on which algae can form. Dosage = 1 l per 10 m³ of water.
5. Add the BIOSAN algaecide with a dosage of 20 g/m³.
6. Leave the pool running for about 2 hours.
7. Then turn off the recirculation pumps and close all the valves. Unscrew and remove the top cover on the filters, then open the plug at the bottom of the filters to drain the water. This is essential to prevent the pockets of bacteria from forming in the gaps between the quartz sand grains during winter closure.
8. Dismantle the recirculation pumps from the circuit, empty them, clean them thoroughly and put them away.
9. Lower the water level in the pool so that it is below the skimmers.
10. If there is one, fit the winter cover over or close the floating roller shutter.

HANDBOOK OF PRACTICAL ADVICE

| PROBLEM | CAUSE | ACTION | |
|-------------------------------|--|---|--|
| | | Chlorine/Electrolysis Pools | No Chlor/Oxygen Pools |
| Cloudy water | THIS is generally because the pH is too high or there is a build-up of colloidal substances. | Bring the pH to 7.2 (EXPO pH NEW BLU) and check that the filtration is working properly. Use OXICLOR 10 to reach the break point. | Bring the pH to 7.2 (BIOACID) and check that the filtration is working properly. Use BIOZONO Ag+ to reach the break point. |
| Green but transparent water | THIS is due to iron in solution. | Check that the pH is in the range 7.4–7.6. Flocculate with CLEAR BLUE or FLOC SUPER PE and then use OXICLOR 10 to reach the break point. Leave the filtration running. | Check that the pH is in the range 7.4–7.6. Flocculate with CLEAR BLUE or FLOC SUPER PE and then use BIO-OXI to reach the break point. Leave the filtration running. |
| Green, cloudy water. | THIS is due to an algae attack. | Bring the pH to 7.2. Perform superchlorination with OXICLOR 10 EVOLUTION and dose EXPOSAN C91 by hand. | Bring the pH to 7.2. Perform shock treatment with BIOZONO Ag+ and dose BIOSAN by hand. |
| High pH. | THIS is due to a build-up of basic substances. | Bring the pH back to 7.2 with EXPO pH NEW BLU. | Bring the pH back to 7.2 with BIOACID. |
| Low pH | THIS is due to a build-up of acidic substances. | Bring the pH back to 7.2 with EXPO pH PLUS. | Bring the pH back to 7.2 with EXPO pH PLUS. |
| Smelly water | THIS is due to an excess of bound chlorine. | Perform superchlorination with OXICLOR 10 and EXPOSAN RB1. | Perform shock treatment with BIOZONO Ag+ and BIOSAN. |
| Algae on the bottom and walls | Probable causes are: Insufficient algaecide, poor chlorination, poor water circulation | Bring the pH to 7.2. Perform superchlorination with OXICLOR 10 and simultaneously add an initial dose of EXPOSAN RB1. Brush the walls if possible. | Bring the pH to 7.2. Perform shock treatment with BIOZONO Ag+ and simultaneously add an initial dose of EXPOSAN RB1. Brush the walls if possible. |

GENERAL SALES CONDITIONS

Pursuant to Article 1469 bis of the Italian Civil Code, after extensive discussion and negotiation, the parties declare that the ongoing relationship, as well as any past relationship, shall be governed according to the following terms and conditions, which shall also apply to any supply and/or commercial relationship that may exist between the parties in the future.

1. ORDERS - PURCHASER INSOLVENCY – 1.1.) The purchaser's order is valid as an irrevocable purchase offer and is not binding for the seller, which reserves the right to accept it in writing directly or through a legal representative. The sales agreement shall be deemed fulfilled only upon receipt by the purchaser of the order confirmation from the seller's legal representative. 1.2) Upon acceptance of the order by the seller, the contract shall be deemed fulfilled and, in case of non-collection of the goods, the buyer is considered to be in default from that moment and, therefore, must pay 50% of the invoice as a penalty, without prejudice to greater damages. The agreement will be deemed to be fulfilled even in the event of partial acceptance of the order, so that failure to collect the goods will entitle the seller to the penalty mentioned in the above paragraph, to be calculated on the lower amount of the invoice. 1.3) Any specific agreement regarding the supply mentioned in this order and under the terms of delivery, even if with the participation of agents or those appointed by the seller, cannot bind the latter unless expressly accepted in writing by their legal representative. 1.4) Total and/or partial fulfilment of the order by the seller implies acceptance of the order. 1.5) The purchaser has no right to withdraw unilaterally from the order or contract. 1.6) If, once the order has been confirmed, the seller becomes aware of unpaid bills, confiscations, restraint orders or any judicial acts in general in the name of the purchaser, or if the seller learns that the purchaser is in financial difficulty, the seller can, if they wish, suspend the contract and demand certain guarantees, or dissolve the contract due to its breach by the purchaser, under art. 1456 of the Italian Civil Code, communicating this in writing with return receipt or telegram. The exercise of this right does not give the purchaser any right to claim reimbursement for damages or other. 1.7) The minimum order accepted is of €250.00 + VAT.

2. PRICES AND PAYMENTS – 2.1.) The sales price, where unspecified, is that found in the seller's price list in force on the date on which the contract is finalized. 2.2) Should the purchaser fail to receive the products when they are ready for delivery, or their preparation and delivery were not possible for reasons that are not the seller's fault, the prices, if not already stated in the order, will be subject to variations in the seller's price list and, in any case, to any variation in the cost of material and manual labour used from the time the goods were prepared up until collection by the purchaser or acceptance of the delivery. 2.3) Taxes, duties and expenses related to the emission of bills of exchange or any regularization of the contract, are at the purchaser's expense. 2.4) Payments must always be made in accordance with the agreed terms and conditions, in Euro, in cash and at the seller's address. The latter also has the right to accept bills of exchange and bank cheques, or authorize drafts or issue bank receipts. This, however, does not bring about under any circumstances, either novation of the original credit, nor any prejudices towards any title retention agreement, nor territorial change in the event of a legal dispute. 2.5) Payments made to the seller's agents shall not be accepted unless previously authorized by the seller in writing. 2.6) Late payment sees interest mature at the rate set out under art. 5 of Italian Legislative Decree 231/2002 effective pursuant to art. 4 of the same Legislative Decree. 2.7) Any amounts unpaid by the purchaser authorize the seller to immediately instruct a legal representative to collect the outstanding balance, plus legal fees.

3. DELIVERY – 3.1.) The delivery terms are indicative and apply from the moment when all the points in the contract have been irrevocably supplied and defined, provided that the purchaser has promptly paid the instalments due. 3.2) If there are any outstanding payments, even ones relating to previous supplies, the seller has the right to suspend implementation of the contract until payment has been made, and sufficient guarantee has been given on future payments. 3.3) Delivery is carried out on weekdays and can be sufficiently postponed due to events beyond the seller's control such as strikes, trade union action, lockouts, fires, flooding, rejection of material or work, delayed delivery by third party suppliers, lack of driving force and other unforeseen events. Whatever the situation, delivery delays cannot give rise to any form of legal claim. 3.4) The seller has the right to make partial deliveries. 3.5) Delivery is regarded as having been completed in all its terms at the seller's headquarters on the twentieth day after delivery of the return receipt in which the seller notifies the purchaser that the products are ready. From that moment onwards, all risks relating to the goods become the responsibility of the purchaser, which will also be charged for storage, custody, maintenance and insurance. After twenty days have elapsed since delivery of the aforementioned return receipt and if the customer has not picked up the products, or the seller has been unable to deliver them, the seller has the right to sell the goods at the purchaser's expense, under art 1515 of the Italian Civil Code.

4. CHANGES TO PRODUCTS – 4.1.) All data and specifications contained in the seller's catalogues, price lists, illustrations, drawings, offers and advertising material in general are purely indicative and do not bind the seller in any way. All photographs in this catalogue are purely indicative and so no compensation will be paid for delivered material that is different from the images. 4.2) The seller reserves the right to make changes to products where necessary, without any obligation to warn the purchaser, as long as the functions of the product remain unaltered. 4.3) After the order has been placed, the seller is not obliged to make any changes to goods already produced, or in the course of production, that are destined for the purchaser.

5. PROHIBITION OF ACTION – 5.1.) Under no condition can the purchaser take legal action against the seller unless all the payments set out in the contract have been met. 5.2) In any case, the purchaser hereby renounces any requests for damages or expenses incurred due to improper use of the goods, or damage that occurred during the period of time they were waiting for an authorized replacement of the goods, for the goods themselves or for their replacement.

6. SHIPPING AND TRANSPORT – 6.1.) The goods travel at the purchaser's risk. 6.2) Goods are always intended as sold at the seller's premises and delivered via the customer's means of transport or appointed courier. Any search for a means of transport undertaken by the seller is intended to be on behalf and in the interest of the purchaser, with no liability and/or cost for the seller. Any inclusion in the sales price of transport costs or the agreement "collection at source" does not constitute an exception to this clause. Any losses, faults, alteration of the goods and packaging for any reason are the responsibility of the customer, including in the event that the seller has to issue warranty statements upon the carrier's request. 6.3) The customer may not refuse to release the goods in transit for any reason. 6.4) When the purchaser does not specify the means of transport in time, this will be selected by the seller without any liability for the latter. 6.5) Any delivery carried out by the purchaser for contested goods, to be replaced on prior authorization, must be done carriage free to the seller's factory, and where the contrary occurs, the seller will have the right to refuse reception without any liability.

7. TESTING - PRODUCT DEFECTS – WARRANTY – 7.1.) The purchaser shall be liable for any damage or harm to the seller's testers or third-parties, while tests are being carried out, unless testing is carried out at the seller's factory. 7.2) The test will be carried out on delivery; if it is delayed due to the fault of the purchaser, the subsequent test shall be paid for in advance, covering travel, labour and board and lodging costs. On completion of the test, the purchaser shall issue the seller with a written declaration showing the results obtained. In the absence of this declaration, the goods sold shall be deemed to have been accepted unconditionally and without reserve. 7.3) If the goods do not have to be tested, the purchaser shall diligently check that there are no faults when the goods are delivered. 7.4) Any faults should be reported to the seller via registered mail with return receipt within eight days from a) when the test is carried out; b) if no test has to be carried out, from the delivery date; c) if the faults were not detectable during testing or when the aforementioned checks were made, from when they are discovered. Failure to comply with the above terms will invalidate the warranty. 7.5) All the seller's products are guaranteed free from manufacturing faults, according to current European and Italian regulations, or according to the additional warranties acknowledged by the manufacturer. The seller's product warranty includes only and exclusively repair or replacement of faulty parts at the seller's factory, without granting any refunds or other expenses; the warranty is invalidated if the faults are found to be due improper use of the goods, or if the seller's products have been tampered with, repaired or altered outside the seller's factory, or if they have been installed using materials or procedures that do not comply with REGULATIONS. 7.6) The party that declares the existence of a manufacturing fault shall provide proof that the product was used properly and, in this case, that it was installed correctly. 7.7) The cost of replacing and re-sending faulty material will be borne by the purchaser. 7.8) It is understood by the parties that in any case the communication of faults in the seller's products do not authorize the purchaser in any way to suspend payment of the seller's invoices.

8. LIEN AGREEMENT – 8.1.) In the case of a hire purchase sale, the goods will remain the property of the seller until the purchaser has completed all the payments, and can be claimed by the seller wherever they are, even if combined with other goods belonging to the purchaser or third parties, in accordance with art. 1523 of the Italian Civil Code and subsequent amendments. 8.2) During said period, the purchaser shall assume the obligations and responsibilities of keeper of the items supplied, and shall not be entitled to transfer, lend, pledge or move them, or allow them to be confiscated or distrained, without declaring that they are the property of the seller and without immediately notifying the seller by registered letter with return receipt.

9. DEFAULTS OF THE PURCHASER - TERMINATION OF THE CONTRACT – 9.1.) Failure to make two payments, even if not consecutively, of the price agreed at the established time, will lead to the purchaser forfeiting the benefit of the term and the seller exercising the right to suspend all deliveries not yet completed and/or take measures to obtain the entire outstanding sum, or the dissolution of the agreement and/or of any other sales agreement in force between the parties, pursuant to art. 1456 of the Italian Civil Code, to be notified in writing via registered letter with return receipt. 9.2) Under the second hypothesis, the purchaser shall immediately return the goods, and shall pay a penalty of €50.00 for each day of delay in returning the goods. 9.3) Compensation for the greater damage remains unaffected, and the seller may also withhold the payments already collected as compensation, except for the greater damage suffered.

10. TRANSFER OF CREDIT – 10.1.) The purchaser declares that it accepts from the outset, pursuant to art. 1264 of the Italian Civil code, any transfer of credit owed by the seller to the factoring agency or similar, expressly exonerating it from any other burden of notification, except to confirm that transfer has occurred, via registered letter with return receipt.

11. COMPLAINTS - COMMUNICATIONS – 11.1.) Any complaints shall be made at the seller's address. For the purposes of the order and subsequent contract, the purchaser declares its residence at the address given on the front cover of the order, and all communication can be sent to this address, or to a different legal headquarters, at the seller's discretion. 11.2) In any case, the purchaser will have to inform the seller of any other change of contact details and addresses within 15 days of the change.

12. APPLICABLE LAW AND COURT OF JURISDICTION – 12.1.) Regardless of the purchaser's nationality and residence, this agreement is subject to the jurisdiction of the Italian Court. 12.2) The sole competent authority in the event of any dispute shall be the Justice of the Peace or the Court of Modena, depending on the value. 12.3) It will, however, be the seller's right to elect one of the other legally recognized, competent courts.

13. PERSONAL DATA PROCESSING – 13.1.) Pursuant to Art. 10 of Italian Law No. 675 of 31/12/1996, your personal data may be subject to processing, meaning the collection, entry, organization, storage, processing, modification, selection, extraction, comparison, use, interconnection, block, communication, distribution, deletion and destruction or any combination of two or more of the foregoing. 13.2) Such personal data will be processed for the following purposes: Administration, accounting, taxation, statistics, commercial, marketing, protection/management/transfer of credit, and to meet all requirements of the regulations in force and for the financial assessment related to the proper fulfilment of the contract. 13.3) Personal data will be processed with tools that ensure its security and confidentiality, either in paper or digital format. We also inform you that in relation to the aforementioned processing, you are entitled to exercise the rights set out in Art. 13 of Italian Law No. 675/96 as follows. 13.4) Your data may be communicated and distributed to the following: Sales agents, suppliers, customers, couriers and carriers, collaborators, commercial and marketing companies and organizations; Credit institutions, financing institutions, leasing companies, credit collectors, factoring companies, insurance companies, intermediation companies; Professional firms (legal and commercial), data processing companies, statistics companies; Our subsidiaries, partners or companies associated in any way. 13.5) Personal data may be communicated and transferred, even abroad, in accordance with the provisions of the law. 13.6) The company declares to have viewed the information contained herein and in Art. 13 of Italian Law No. 675/96, and to express its consent to the processing of personal data for the purposes indicated therein. 13.7) It also declares to express its consent to the communication and distribution of data for the purposes described above, including for the commercial and marketing purposes of unspecified parties.



MANY EXPERIENCES, A SINGLE REALITY



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