

POWER CLEANING I10

Professional Acid Foaming Detergent for the Removal of Limescale, Mineral Deposits, Rust and Organic Soiling

1. Product Description

POWER CLEANING I10 is a professional, highly concentrated acid foaming detergent designed for intensive cleaning and the removal of limescale, mineral deposits, rust and organic soiling in industrial and professional facilities. The product is formulated with phosphoric acid, non-ionic surfactants, amines and corrosion inhibitors, providing excellent wetting, dissolution and removal of:

- Limescale
- Mineral deposits
- Rust and metal oxides
- Soap residues
- Grease and protein deposits
- Soiling from stainless steel surfaces and processing equipment

Thanks to its stable foam, the product provides extended contact time with the treated surface, ensuring maximum cleaning efficiency on vertical and hard-to-reach surfaces.

Contains corrosion inhibitors that help protect metal surfaces when used according to the recommended instructions.

The product is intended exclusively for professional and industrial use.



The product is used at concentrations ranging from 2% to 10%, depending on the degree and type of soiling, water hardness, operating temperature and application method.

2. Areas of Application**Food Processing Industry**

POWER CLEANING I10 is designed for professional acid cleaning and the removal of mineral deposits in:

Dairy Industry

- Pasteurizers
- Storage tanks
- Stainless steel pipelines
- Processing equipment
- Work surfaces

Meat Processing Industry

- Processing equipment
- Stainless steel work tables
- Hooks, trolleys and racks

- Wall and floor surfaces

Bakery and Confectionery Industry

- Production lines
- Machines and equipment
- Stainless steel work surfaces
- Floor and wall surfaces

Beverage Industry

- Production lines
- Storage tanks
- Filling equipment
- Stainless steel surfaces
- Acid-resistant equipment

HoReCa Sector

The product is suitable for professional cleaning in:

- Restaurants
- Hotels
- Coffee shops
- Central kitchens
- Catering facilities
- Bakeries
- Pastry shops
- Institutional kitchens

Effectively removes limescale, mineral deposits, soap residues, grease and other inorganic deposits from sanitary facilities, stainless steel equipment, kitchen surfaces and professional equipment.

General Industry

Suitable for cleaning:

- Processing equipment
- Stainless steel surfaces
- Machines and tanks
- Floors and walls
- Ceramic surfaces
- Sanitary facilities
- Acid-resistant surfaces

POWER CLEANING I10 е наменет за професионално киселинско чистење и отстранување на минерални наслаги во:

3. Key Benefits

- Effectively removes limescale, water scale and mineral deposits.
- Quickly dissolves rust, metal oxides and other inorganic deposits.
- Simultaneously removes grease and protein residues.
- Delivers excellent cleaning performance on stainless steel surfaces and processing equipment.
- Produces a stable, long-lasting foam that provides extended contact time with the treated surface.
- Contains corrosion inhibitors that help protect metal surfaces when used as directed.
- Effective even in hard water conditions.

- Suitable for both manual and mechanical application.
- Compatible with foam cleaning systems, satellite cleaning systems, high-pressure cleaning equipment and floor scrubber machines.
- High concentration ensures economical consumption.
- Improves the hygiene and appearance of treated surfaces.
- Completely miscible with water.

4. Recommended Dilution

Degree of Soiling	Concentration	Product per 1 L of Working Solution
Light mineral deposits	2%	20 mL
Routine daily cleaning	2–3%	20–30 mL
Medium deposits	3–5%	30–50 mL
Heavy limescale and mineral deposits	5–8%	50–80 mL
Stubborn mineral deposits and rust	8–10%	80–100 mL

For routine foam cleaning, a **2–5%** working solution is recommended.

For heavily soiled surfaces and stubborn mineral deposits, a concentration of **5–10%** is recommended.

For localized treatment of heavy limescale deposits and rust, the product may be applied **undiluted** directly to the surface. Allow it to act for **5–10 minutes**, then rinse thoroughly with clean water.

The product is **not recommended** for use on acid-sensitive surfaces such as marble, natural stone, aluminium and other materials that are not resistant to acidic cleaning agents. Before first use, always test material compatibility on a small, inconspicuous area.

5. Instructions for Use

Prepare the working solution according to the recommended concentration, depending on the degree and type of soiling.

Apply the solution evenly to the surface using a foam cleaning system, satellite cleaning system, high-pressure cleaner, hand sprayer, brush or sponge.

Allow the product to act for 5–15 minutes, depending on the amount of mineral deposits and the degree of soiling. Do not allow the solution to dry on the surface.

After the contact time has elapsed, rinse the surface thoroughly with clean water.

For surfaces that come into direct contact with food, rinse thoroughly with potable water after cleaning.

For stubborn deposits, repeat the cleaning procedure or use a higher concentration in accordance with the recommended dilution.

Application Methods

Method	Recommendation
Manual application	Using a brush, pad or suitable acid-resistant cleaning equipment
Spray application	Using a professional spraying system that produces minimal aerosol
Foam generator	Recommended for vertical and large surfaces requiring extended contact time
Foam cleaning / Satellite system	Suitable for production lines and industrial hygiene programmes
Machine cleaning	Use only with equipment and materials compatible with acidic cleaning agents

The product is suitable for both automated and manual cleaning systems and produces a stable foam that improves surface wetting and extends the contact time with the treated surface.

Recommended Working Temperature

For optimum cleaning performance, the product is recommended for use at temperatures between 20°C and 60°C.

Higher temperatures accelerate the dissolution of mineral deposits and limescale.

The product also provides excellent cleaning performance with cold water, depending on the type and degree of soiling.

6. Material Compatibility

POWER CLEANING I10 is an acidic cleaning product.

Suitable for use on:

- ✓ Stainless steel
- ✓ Ceramic
- ✓ Porcelain
- ✓ Glass
- ✓ Acid-resistant plastics

Not recommended for use on:

- ✗ Aluminium
- ✗ Galvanized surfaces
- ✗ Marble
- ✗ Limestone
- ✗ Natural stone
- ✗ Other acid-sensitive materials

Before first use, perform a compatibility test on a small, inconspicuous area and follow the equipment manufacturer's recommendations.

7. Composition

Phosphoric Acid, Non-ionic Surfactants, Amines, Corrosion Inhibitors

8. Technical Characteristics

Property	Value
Appearance	Clear, low-viscosity liquid
Colour	Colourless
Odour	Characteristic
pH (1% solution)	1.0–3.0
Density at 20°C	Approximately 1.025 g/cm ³
Water Solubility	Completely miscible with water
Foaming Properties	High
Recommended Dilution	2–10%
Recommended Working Temperature	20–60°C

9. Safety Instructions

DANGER

Contains: Phosphoric Acid

Hazard Pictogram

GHS05 – Corrosion

Classification

- Skin Corrosion, Category 1B
 - Serious Eye Damage, Category 1
 - Corrosive to Metals, Category 1
-

Hazard Statements

- H290: May be corrosive to metals.
- H314: Causes severe skin burns and eye damage.

The classification, signal word and hazard statements are specified in the Product Safety Data Sheet (SDS).

Required Personal Protective Equipment

Body Part	Recommended Protection
Hands	Chemical-resistant gloves suitable for protection against acids
Eyes	Tightly fitting chemical safety goggles
Face	Face shield, especially during dilution and spray application
Body	Protective clothing and acid-resistant apron
Feet	Closed chemical-resistant safety footwear
Respiratory system	Suitable respiratory protection where mist or aerosol formation may occur

The Safety Data Sheet recommends the use of chemical safety goggles, face shield, protective gloves and acid-resistant protective clothing.

Basic Safety Measures

- Do not breathe mist or spray.
- Avoid contact with skin and eyes.
- Do not mix with alkaline products.
- Do not mix with other cleaning agents.
- Do not use together with chlorine-based products unless an approved procedure is available.
- When preparing the working solution, **always add the product to water, never water to the product.**
- Ensure adequate ventilation.
- Do not eat, drink or smoke while handling the product.
- Wash hands thoroughly after use.
- Read the Safety Data Sheet before use.

10. First Aid Measures

Exposure	Procedure
Eye Contact	Immediately rinse cautiously with plenty of water for at least 15 minutes . Remove contact lenses if present and easy to do. Continue rinsing and seek immediate medical attention.
Skin Contact	Immediately remove contaminated clothing. Rinse skin thoroughly with plenty of water or shower. Seek medical attention.
Ingestion	Rinse the mouth. Do not induce vomiting. Immediately contact a Poison Centre or physician.
Inhalation	Move the affected person to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention.

11. Storage

- Store the product in its original, upright and tightly closed container.
- Store in a cool, dry and well-ventilated area.
- Recommended storage temperature: **5–35°C**.
- Protect from frost, excessive heat and direct sunlight.
- Store separately from alkalis and incompatible chemicals.
- Do not store in metal containers that are not corrosion-resistant.
- Keep out of the reach of children and unauthorized persons.
- Provide secondary containment in the storage area.

12. Environmental Protection

- Do not discharge the concentrated product into drains, surface water or groundwater.
- Prevent release into soil and waterways.

- Collect spills using a suitable inert absorbent material.
- Neutralization shall be carried out only by trained personnel following an approved procedure.
- Dispose of waste and contaminated packaging in accordance with local regulations.
- Do not reuse empty packaging for water, food or other products.
- Avoid excessive dosing and prepare only the required amount of working solution.
- The surfactants contained in this product comply with the biodegradability requirements of **Regulation (EC) No. 648/2004**. However, the concentrated product must not be discharged directly into the environment.

13. Important Notes

- **POWER CLEANING I10** is a professional acidic cleaning agent designed for the removal of limescale and mineral deposits.
- The product is **not intended** for use on acid-sensitive surfaces such as marble, natural stone, aluminium, galvanized surfaces and similar materials.
- Surfaces that come into direct contact with food **must be thoroughly rinsed with potable water** after cleaning.
- The appropriate concentration and contact time should be determined by trial cleaning before routine use.
- Do not allow the product or the working solution to dry on the treated surface.
- This Technical Data Sheet shall be used together with the current Product Safety Data Sheet (SDS).

Manufacturer



BOVI-MARK LOG LLC

St2. No 2, Mirkovci, Čučer Sandevo, 1000 Skopje

Republic of North Macedonia

Tel.: +389 71 215 550

E-mail: bovi.mark@com.mk

Web: www.bovimark.mk

Disclaimer

The information contained herein is based on the manufacturer's current knowledge, laboratory testing and practical experience.

It is provided in good faith and is intended as guidance for the safe handling and proper use of the product under normal operating conditions.

This information does **not** relieve users of their responsibility to determine the suitability of the product for their specific application and operating conditions.

If there is any doubt regarding the appropriate use of the product, users should consult the manufacturer before application.

The information provided in the current **Safety Data Sheet (SDS)**, available on www.bovimark.mk and on the product label, shall always take precedence and is considered binding.

This Technical Data Sheet supersedes all previous editions.