TECHNICAL DATA SHEET (TDS) AND INSTRUCTIONS FOR USE

METOX DGR-02

Concentrated Oil, Dirt and Surface Cleaner

Acidic concentrated cleaner for metal and stainless steel surfaces

Product Description

METOX DGR-02 is a high-performance, phosphoric and citric acid-based concentrated cleaner developed to remove heavy oil, grease, carbonised dirt, superficial rust, tea staining, limescale and industrial residues from metal and especially stainless steel surfaces.

It shows a powerful cleaning effect even when diluted with water and restores the surface to its original brightness, texture and appearance. Thanks to its concentrated structure, it is an economical and long-lasting solution.

Features and Benefits

- **Highly effective formula:** Dissolves the most stubborn oil, grease and carbonised dirt without leaving residues.
- **Pre-cleaning:** Removes oil and organic dirt before pickling so that the acids penetrate the surface more effectively.
- **Maintenance cleaning:** Removes stains caused by sea water, tea staining, rain water, limescale and road salt.
- **Versatile use:** Immersion baths, spray systems, ultrasonic washing and manual wiping.
- **Non-flammable, biodegradable and economical:** Used diluted with a high proportion of water.



30 kg drum and 1,000 kg IBC

Packaging

Metox DGR-02 is supplied in 30 kg drums and 1,000 kg IBC polyethylene containers. Availability of package sizes may vary between markets.

Storage

- Metox DGR-02 should be stored indoors at room temperature. Containers must be kept tightly closed, upright and out of reach of unauthorised persons.
- As settling may occur during storage, the product must be mixed before use; it should not be stored longer than necessary.
- When stored at room temperature, the maximum shelf life is two years. Exposure to higher temperatures (>35 °C) may damage the product and shorten its shelf life.

Areas of Use

- Machine parts, equipment and industrial kitchen equipment
- Factory floors, production lines, automotive and metalworking industry
- Aircraft engine and chassis cleaning
- General maintenance and restoration of stainless steel surfaces

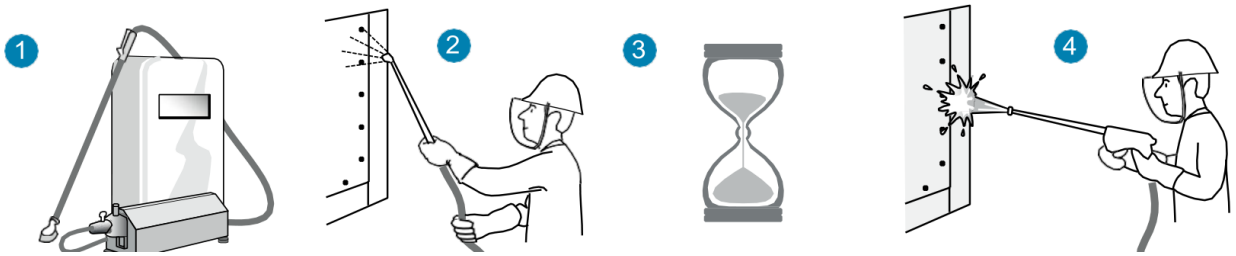
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Technical Properties

Property	Value
Product type	Acidic concentrated oil, dirt and surface cleaner
Appearance	Clear liquid, colourless
Relative density (20 °C)	≈ 1.05 – 1.10 g/cm³
pH (concentrate)	< 2
Flash point	Not applicable (non-flammable)
Solubility in water	Fully miscible
Dilution ratio	1/1 – 1/5 (product/water)
Reaction time (20 °C)	15 – 30 minutes
Shelf life	Max. 2 years at room temperature

Instructions for Use

Metox DGR-02 is diluted with water according to the degree of soiling and applied by spraying, brushing, immersion or ultrasonic washing.



1. Dilute Metox DGR-02 with water at a ratio of 1/1 to 1/5 depending on the condition of the surface. It is applied by spraying or brushing.
2. Spray the product evenly over the entire surface.
3. The typical reaction time is 15–30 minutes at 20 °C. An additional spraying may be required for stubborn oil; mechanical brushing with a nylon brush also helps.
4. Rinse off the residues with a high-pressure water jet. Use deionised water for the final rinse of sensitive surfaces.

Recommended process for surface protection: A subsequent passivation treatment (e.g. Metox P-3000 or Metox H-3000) on stainless steel surfaces after cleaning with METOX DGR-02 increases surface resistance and, according to practical experience, can extend the next maintenance interval by up to three times.

Waste Treatment

- Waste water generated during cleaning is acidic; it must be adjusted to pH 7–10 with Metox N-3000 or slaked lime before discharge and disposed of in accordance with local regulations.
- Empty containers (HDPE) should be cleaned and can then be recycled in accordance with local regulations.