TECHNICAL DATA SHEET (TDS) AND INSTRUCTIONS FOR USE

METOX S-3000

Stainless Steel Pickling Spray

Sprayable pickling product for large surfaces

Product Description

METOX S-3000 is a sprayable pickling product specially developed to remove heat tint, oxide layers and mechanical marks formed during fabrication, cutting, welding and blasting of large stainless steel structures or equipment.

It provides fast and uniform cleaning on large areas that gel-type pastes cannot reach or where roller/brush application is difficult.

Features and Benefits

- **Large area application:** Easily applied to large and complex surfaces, reducing labour time and cost.
- **Effective cleaning:** Thoroughly removes weld burns, heat damage, rust and machining marks.
- **Passivation support:** Supports the re-formation of the chromium layer, restoring corrosion resistance.
- **Compliance with standards:** Complies with the requirements of ASTM A-380 A.1 and BS CP 312.



20 kg drum

Packaging

METOX S-3000 is supplied in 20 kg drums. Availability of package sizes may vary between markets.

Storage

- Metox S-3000 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

- Large stainless steel structures, tanks and equipment
- Surfaces after fabrication, cutting, welding and blasting
- Areas where roller/brush application is difficult

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Technical Properties

Property	Value
Product type	Stainless steel pickling spray
Appearance	Pink, sprayable gel
Odour	Pungent, acidic
pH	< 1
Viscosity	Thixotropic
Flash point	Not applicable (non-flammable)
Solubility in water	Soluble
Reaction time (304/316)	60 minutes at 20 °C; 45 minutes at 30 °C
Standards	ASTM A-380 A.1, BS CP 312
Shelf life	Max. 2 years at room temperature

Instructions for Use

Metox S-3000 is applied with an acid-resistant spray pump. The dwell time depends on the material grade, surface contamination and ambient temperature.



1. Apply with an acid-resistant pump. First clean off oil and dirt with Metox DGR-02, then rinse with water.
2. Shake Metox S-3000 before use. Spray a thin, uniform layer over the entire surface.
3. For standard steel grades such as 304 and 316, the typical reaction time is 60 minutes at 20 °C and 45 minutes at 30 °C. The pickling time may vary with the condition of the surface.
4. Rinse off Metox S-3000 residues using a high-pressure water jet. Use deionised water for the final rinse of sensitive surfaces.

Passivation: To further improve the result, we recommend passivation after pickling with Metox P-3000 or with the acid-free, safer-to-use Metox H-3000.

Waste Treatment

- Waste water generated during pickling contains acids and must be adjusted to pH 7–10 with Metox N-3000 or slaked lime before discharge. Heavy metals dissolved from the stainless steel precipitate as sludge and must be sent for disposal in accordance with local regulations.
- Empty containers (HDPE) should be cleaned and can then be recycled in accordance with local regulations.

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