TECHNICAL DATA SHEET (TDS) AND INSTRUCTIONS FOR USE

# METOX P-3000

## Stainless Steel Passivation Liquid

Nitric acid-based passivation liquid that restores the passive layer

## Product Description

METOX P-3000 is a special nitric acid-based passivation liquid used to restore the passive layer of stainless steel surfaces damaged by pickling or mechanical treatment (grinding, brushing, etc.) and to maximise corrosion resistance.

It accelerates and strengthens the natural protection mechanism of stainless steel.

### Features and Benefits

- **Passive layer formation:** Ensures fast and controlled re-formation of the chromium oxide layer (passive film).
- **Corrosion resistance:** Significantly increases corrosion resistance and provides long service life in aggressive environments.
- **Compliance with standards:** Complies with the ASTM A967 and AMS 2700 passivation standards.
- **Surface protection:** Removes metallic contamination (free iron) and minimises the risk of rusting.




*30 kg drum and 1,000 kg IBC*

## Packaging

Metox P-3000 is supplied in 30 kg drums and 1,000 kg IBC polyethylene containers. Availability of package sizes may vary between markets.

## Storage

- Metox P-3000 should be stored indoors at room temperature.
- Containers must be kept tightly closed, upright and out of reach of unauthorised persons.

## Areas of Use

- Welded stainless steel parts (after pickling)
- Mechanically treated stainless steel surfaces
- Stainless steel equipment in the food, pharmaceutical and chemical industries
- Architectural and decorative stainless steel applications

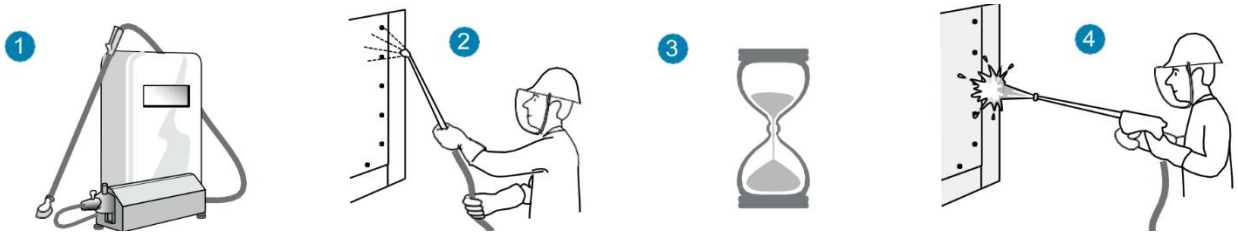
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## Technical Properties

| Property | Value |
|---|---|
| **Product type** | Stainless steel passivation liquid |
| **Appearance** | Clear liquid, colourless |
| **Odour** | Slight, characteristic |
| **Relative density** | 1.20 kg/l |
| **pH** | ≈ 1 |
| **Flash point** | Not applicable (non-flammable) |
| **Solubility in water** | Fully miscible |
| **Reaction time (room temperature)** | 20 – 30 minutes |
| **Standards** | ASTM A967, AMS 2700 |

## Instructions for Use

Metox P-3000 is applied with an acid-resistant spray pump, by immersion or by brush. The treatment time depends on the surface quality and process conditions.




1. Apply Metox P-3000 with an acid-resistant spray pump, by immersion or by brush.
2. Apply the passivator evenly over the entire surface.
3. The typical reaction time for all stainless steel grades is 20–30 minutes at room temperature.
4. Rinse off Metox P-3000 residues using a high-pressure water jet. Use deionised water for the final rinse of sensitive surfaces.

## Waste Treatment

- Waste water generated during passivation contains acids and must be adjusted to pH 7–10 with Metox N-3000 or slaked lime before discharge.
- Empty containers (HDPE) should be cleaned and can then be recycled in accordance with local regulations.