TECHNICAL DATA SHEET (TDS) AND INSTRUCTIONS FOR USE

METOX MS 505

Electrolytic Marking Solution

Permanent marking of logos, text and serial numbers with METOX 500 / 600

Product Description

METOX MS 505 is an electrolytic marking solution developed for permanent marking of logos, text, serial numbers and CE marks on metal surfaces with METOX 500 and METOX 600 machines.

Applied through a marking paper (stencil), the solution creates a dark mark on the surface with AC current without affecting surface integrity; with METOX 600, embedded (etching) marking can also be made with DC current. It is mild and low-risk and causes no corrosion when applied correctly.

Features and Benefits

- **Permanent, clear marking:** Sharp, permanent marks for logos, serial numbers, material grades and CE marks.
- **Wide range of materials:** Stainless steel, galvanised, chrome and carbon steel, aluminium, brass, copper, zinc and titanium.
- **Surface integrity:** AC marking does not change surface roughness; suitable for food and pharmaceutical equipment.
- **Low cost:** High-quality marking at a much lower cost than laser marking.
- **Compatibility:** Compatible with marking machines, primarily METOX 500 and METOX 600.



1 kg and 5 kg packages

Packaging

Metox MS 505 is supplied in 1 kg and 5 kg polyethylene packages. Availability of package sizes may vary between markets.

Storage

- Store in a cool, dry place in the tightly closed original container at 5 °C to 40 °C.
- Do not place in direct sunlight or near heat sources. Do not return used solution to the original container.

Areas of Use

- Product and company marking by stainless steel equipment and machine manufacturers
- Serial number, batch number and technical data marking
- Hygienic marking of food, pharmaceutical and chemical equipment
- Marking of aluminium, brass, copper and titanium parts

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Technical Properties

Property	Value
Product type	Electrolytic marking solution
Appearance	Colourless, clear liquid
Relative density (20 °C)	≈ 1.10 g/cm³
Flash point	Not applicable (non-flammable)
Solubility in water	Fully soluble
Marking type	AC (colour change) / DC (etching)
Compatible machines	METOX 500, METOX 600
Shelf life	12 months in original packaging

Instructions for Use

Metox MS 505 is used with the marking pad and marking paper (stencil) on METOX 500 / METOX 600 machines.

1. Remove oil and dirt from the surface to be marked and dry it.
2. Connect the METOX 508 earth clamp to the workpiece on a clean metal surface.
3. Fit the METOX 506 marking carbon; place the METOX 507 marking pad and your custom marking paper and secure them with the METOX 510 O-ring.
4. Moisten the pad with METOX MS 505 solution. Place the marking paper on the surface and run the machine in marking (AC) mode; for embedded marking use the DC mode of METOX 600.
5. Move the pad over the paper for a few seconds while pressing. At the end of the process, wipe the surface with a damp cloth or rinse with water.

Waste Treatment

- Used solution and residues must not be discharged into drains and must be disposed of in accordance with local regulations.
- Empty containers (HDPE) should be cleaned and can then be recycled in accordance with local regulations.