



TECHNICAL DATA SHEET

GENERAL DESCRIPTION
– SUBJECT TO CHANGES OR DEVIATIONS

Insitu[®] Metal Prep: Aqueous Alkaline All-Purpose Cleaner

PRODUCT DESCRIPTION

Insitu[®] Metal Prep is an aqueous blend of detergents, alkalinity builders, conditioners and organic and inorganic inhibitors specially designed for heavy-duty cleaning of oils, waxes, grease, and shop dirt while being multi-metal safe. Easy to use, Insitu[®] Metal Prep is diluted further with water as required to remove the soils involved. Recommended for coil cleaning prior to Insitu[®] Corrosion Coatings.

FEATURES AND BENEFITS OF INSITU METAL PREP

- Multi-metal safe
- Heavy-duty
- Low foaming
- Non-phosphated
- Retards galvanic corrosion
- Safe on Aluminum and Magnesium
- Very free rinsing
- Prevents flash rust
- Low VOC
- No Hap's, CFC's, or 313's
- Anti-flammable and anti-corrosive
- Low cost of use
- Use in spray and immersion systems

COMPATIBILITY

Insitu[®] Metal Prep is multi-metal safe for use on yellow metals including copper, bronze and brass, aluminum, iron, steel and composites in addition to most precious metals, plastics and rubbers. It is safe to use with PVDF, Kalrez[®], Teflon and ceramic elastomers and filters.

TYPICAL SOILS:

- Machining or drawing oils
- Grease
- Wax
- Fingerprints
- Shop dirt
- Hydraulic fluids
- Road dirt
- Carbonized oils
- Petrolatum

HINTS FOR SUCCESSFUL USE

- Effective at all-temperatures, performance is optimum at 120-140°F
- Best results are obtained when parts are completely immersed in Insitu[®] Metal Prep
- To remove all cleaner residue, follow with a thorough rinse.
- Prevent spotting on polished surfaces by final rinsing with deionized (DI) or reverse osmosis (RO) water
- Dry parts with hot or circulating air

RINSING AND DRYING

- Use deionized (DI) or reverse osmosis (RO) water to minimize spotting on polished surfaces
- Keep rinses fresh, monitoring by conductivity or resistivity
- Recycle
- Dry parts to meet production requirements and minimize spotting

ENVIRONMENTAL HEALTH AND SAFETY

Insitu[®] Metal Prep is a non-flammable, non-corrosive biodegradable aqueous solution with 28.1 g/L VOC at 100%. It contains no CFC's or HAP's. Refer to the Material Safety Data Sheet for more information.

STORAGE AND HANDLING

All ingredients in this product are TSCA listed. It is a non-flammable, non-corrosive liquid. Packaged in polyethylene containers five gallons and greater, Insitu[®] Metal Prep, with the seal unbroken, has a suggested shelf-life of 5 years. Store out of direct sunlight at 40-100°F.

AVAILABILITY

Insitu[®] Metal Prep is available commercially in five (5) gallon and 55 gallon containers.

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	RESULT
Appearance	Clear straw liquid
Odor	Bland
Specific Gravity	1.033
Weight/Gallon	8.62#
Flash Point, °F/°C	None to boiling
Boiling Point, °F/°C	>200 / >100
pH 100%	11.0-12.0
VOC, 100%	28.1 g/L
VP of VOC Comp.	0.09 mmHg at 20 °C
COD, 0.25%	303 ppm
Water Solubility	Miscible