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PRODUCT BULLETIN

METALNOX® M6440

Mild Alkaline Chelated Aqueous Immersion Cleaner and Brightener

FEATURES & BENEFITS

- MILD PH
- CLEANS & BRIGHTENS
- SAFE ON COPPER,
- BRASS AND SILVER
- MULTI-METAL SAFE
- SAFE ON PRECIOUS METALS
- Low VOC
- NO HAP'S
- No CFC's
- No SARA 313's
- NO SILICATES
- NO PHOSPHATES
- NON-FLAMMABLE
- Low Use Cost
- LONG BATH LIFE
- EFFECTIVE IN ULTRASONIC AND SOAK APPLICATIONS

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KYZEN corporation

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METALNOX M6440 is an aqueous blend specially designed for optimum effectiveness on scale, metal oxides, dry lubes, light oils, waxes, polishing rouge, and grease while being relatively people-safe and environmentally friendly. Easy to use, M6440 is diluted further with water as desired, or it may be applied as received without damage to delicate substrates if extra cleaning efficiency is needed for more challenging cleaning situations. Water rinse or inhibit with Kyzen CP6115 or CP90S as required to prevent re-oxidation of bare metal surfaces.



SYPICAL SOLL

- SCALE
- METAL OXIDES
- DRY LUBES
- POLISHING ROUGE
- LIGHT OILS
- DRAWING OILS
- GREASE
- WAX
- FINGER PRINTS
- SHOP DIRT
- CARBON

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES:

Appearance Odor Specific Gravity Weight/gallon Flash Point, °F/°C Boiling Point, °F/°C Clear straw liquid Mild 1.118 9.31# None to boiling 212/100 pH 100% pH 10% VOC, 100% VP of VOC Comp. COD, 0.25% Water Solubility 7.8-9.8 7.8-9.8 14.8 g/L 8.27 mmHg at 20 °C 865 ppm Complete

SUGGESTED PROCESS PARAMETERS:

Process Type	Concentration Range	Temperature Range	Rinse/Dry
Spray; In-line	Not Applicable		
Spray; Batch	Not Applicable		
Immersion, Agitation	3-100%	amb-160 °F	M6440 or DI/Air
Immersion, Soak	3-100%	amb-160 °F	M6440 or DI/Air
Immersion, Ultrasonics	3-100%	amb-160 °F	M6440 or DI/Air
Manual Wipe	3-100%	ambient	Optional

The above conditions are meant to be starting ranges. Process parameters may be increased or decreased as needed depending on the specific parts and soils involved. Your Kyzen Sales Representative can assist you in optimizing your process parameters.

Delivering Precision Cleaning Performance

METALNOX M6440 Mild Alkaline Chelated Aqueous Immersion Cleaner

COMPATIBILITY:

METALNOX M6440 is multi-metal safe for use on yellow metals including copper, bronze and brass, silver, 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, while it is best used in polypropylene or stainless equipment.

HINTS FOR SUCCESSFUL USE:

- Effective at all-temperatures, performance is optimum at 100-130°F.
- Best results are obtained when parts are completely immersed in M6440.
- To remove all cleaner residue, follow with a thorough rinse. Add Kyzen CP6115 or CP90S at 1-3% to prevent flash rusting if needed.
- Prevent spotting on polished surfaces by final rinsing with deionized (DI) or reverse osmosis (RO) water.

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.

BATH LIFE:

Bath life studies show high loading capacity. This equates to long tank life, low maintenance costs and reduced waste generation and chemical consumption.

MAINTENANCE METHODS:

METALNOX M6440 concentration should be monitored and maintained on a routine and regular basis depending on tank use. Your Kyzen Representative can assist you with this. Best results are obtained with a Dropper Titration Test Kit available from Kyzen. Refractive Index and Conductivity are alternative methods for tank monitoring.

ENVIRONMENTAL, HEALTH AND SAFETY:

METALNOX M6440 is a non-flammable, non-corrosive biodegradable aqueous solution with 14.8 g/L VOC at 100% dilution. 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, METALNOX M6440, with the seal unbroken, has a suggested shelf-life of one year. Store out of direct sunlight at 40-100°F.

AVAILABILITY:

METALNOX M6440 is available commercially in one (1) gallon, five (5) gallon and 55 gallon containers.



The data contained herein is based on information currently available to Kyzen Corporation and believed factual and the opinions of qualified experts, however, this data is not to be taken as a warranty or representation for which Kyzen Corporation assumes legal or financial liability. Kyzen® and Metalnox® are registered trade names of Kyzen Corporation.