

PRODUCT BULLETIN

METALNOX® M6309JK

Heavy-Duty Phosphated & Silicated Aqueous Alkaline Cleaner/Decarbonizer

FEATURES & BENEFITS

- MULTI-METAL SAFE
- HEAVY-DUTY
- LOW FOAMING
- EFFECTIVE IN MILD STEEL EQUIPMENT
- Low VOC
- No HAP's
- No CFC's
- No SARA 313's
- NON-FLAMMABLE
- NON-CORROSIVE
- Low Use Cost
- USE IN SPRAY AND IMMERSION SYSTEMS

METALNOX M6309JK is an aqueous blend specially designed for heavy-duty cleaning of oils, waxes, grease, carbonized soils, smut and shop dirt while being multi-metal safe. Easy to use, M6309JK is diluted further with water as required to remove the soils involved. M6309JK contains silicates and phosphates, therefore a thorough rinse is required to prevent white bloom on parts. To prevent flash rusting of ferrous parts, addition of an inhibitor, such as KYZEN CP90S in the rinse is suggested.



TYPICAL SOILS

- MACHINING OILS
- DRAWING OILS
- GREASE
- WAX
- FINGER PRINTS
- SHOP DIRT
- HYDRAULIC FLUIDS
- ROAD DIRT
- CARBONIZED OILS

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	Clear straw liquid	pH 100%	11.9-12.9
Odor	Mild	pH 10%	11.3-12.3
Specific Gravity	1.088	VOC, 100%	0.00 g/L
Weight/gallon	9.06#	VP of VOC Comp.	0.86 mmHg at 20 °C
Flash Point, °F/°C	None to boiling	COD, 0.01%	15.3 ppm
Boiling Point, °F/°C	223/106	Water Solubility	Miscible

SUGGESTED PROCESS PARAMETERS:

<u>Process Type</u>	<u>Concentration Range</u>	<u>Temperature Range</u>	<u>Rinse/Dry</u>
Spray; In-line	5-25%	amb-160 °F	Abundant/Air
Spray; Batch	5-25%	amb-160 °F	Abundant/Air
Immersion, Agitation	5-25%	amb-160 °F	Abundant/Air
Immersion, Soak	5-25%	amb-160 °F	Abundant/Air
Immersion, Ultrasonics	5-25%	amb-160 °F	Abundant/Air
Manual Wipe	5-25%	ambient	Abundant/Air

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.

METALNOX M6309JK

HEAVY-DUTY PHOSPHATED AND SILICATED AQUEOUS ALKALINE CLEANER/DECARBONIZER

COMPATIBILITY:

METALNOX M6309JK 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, while it is best used in polypropylene or stainless equipment.

HINTS FOR SUCCESSFUL USE:

- Effective at elevated temperatures, performance is optimum at 130-160°F.
- Best results are obtained when parts are completely immersed in M6309JK.
- To remove all cleaner residue, follow with a thorough rinse. Add 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.
- 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.

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 M6309JK 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 M6309JK is a non-flammable, non-corrosive biodegradable aqueous solution with 0.00 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, METALNOX M6309JK, with the seal unbroken, has a suggested shelf-life of one year. Store out of direct sunlight at 40-100°F.

AVAILABILITY:

METALNOX M6309JK 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 is 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.