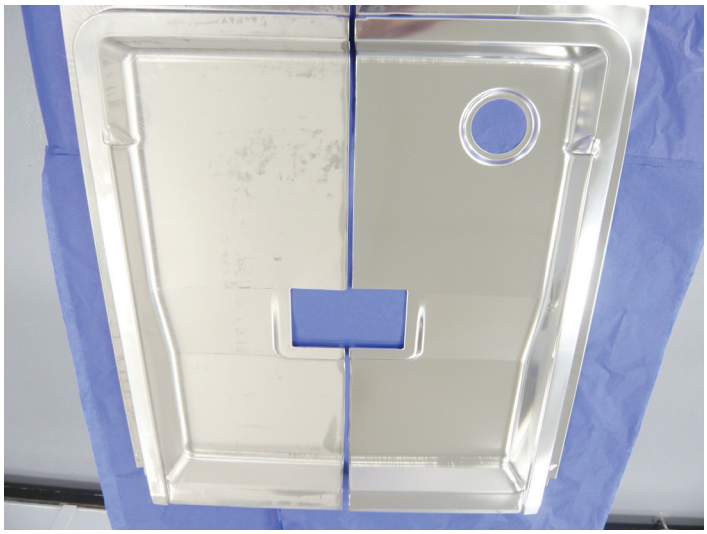
KYZEN
Where Science and Care Converge.

PRODUCT BULLETIN

METALNOX® M6321

High Alkaline Cleaner for Carbonaceous Soils

METALNOX M6321 is an aqueous blend specially designed for heavy-duty cleaning of carbonaceous soils resulting from deep draw, laser cutting, welding, brazing and other similar operations.



- **Use in Spray and Immersion Systems**
- **Excellent for Removal of Carbon Smut**
- **Leaves Little to No Visible Residue**
- **Effectively Splits Oils for Removal from Wash Solution**
- **Low VOC**
- **Rapidly Cleans Polymer-Based, Dry-Film Lubricant Applied in Roll-Coating Operations**

PRODUCT PROPERTIES

pH (10g/L)	11.8
FLASH POINT	None to Boiling
BOILING POINT	212°F/100°C
WATER SOLUBLE	Complete
VOC, @ 10%	0.0

TYPICAL PROCESSES

APPLICATION	Ultrasonic, Spray & Immersion Systems
CONCENTRATION	Spray: 3-10% Immersion: 7-12%
TEMPERATURE	100-180°F / 38-82°C
RINSE	Optional
DRY	Air

The above process parameters are recommendations based on extensive testing done in KYZEN's application lab. Your KYZEN sales representative can assist you in optimizing your process parameters.

STORAGE AND HANDLING

- Packaged in Polyethylene Containers
- Store at 5-50°C/41-122°F in Original Container
- Standard Chemical Handling Practices
- Shelf Life of 5 Years, in Sealed Containers of 5 gallons / 25 liters or more

AVAILABILITY

- 1 Gallon
- 5 Gallons
- 55 Gallons
- 5 Liters*
- 25 Liters*
- 208 Liters*

* Liters Available in South Asia and Europe

METALNOX M6321

High Alkaline Cleaner for Carbonaceous Soils

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ENVIRONMENTAL, HEALTH AND SAFETY REGULATIONS

METALNOX M6321 is RoHs compliant and Halogen-free in accordance with RoHS Directive (EU) 2015/863 and EN 14582:2016. M6321 has a negligible global warming potential, is not regulated as an Ozone Depleting Chemical in the United States, and is not listed as a Hazardous Air Pollutant. Refer to the Safety Data Sheet for more information.

REACH ✓ KYZEN is an ISO 9001:2015 company.



COMPATIBILITY

METALNOX M6321 is compatible with all materials of construction used in industrial parts cleaning systems and processes. For specific compatibility information, please contact your KYZEN representative.

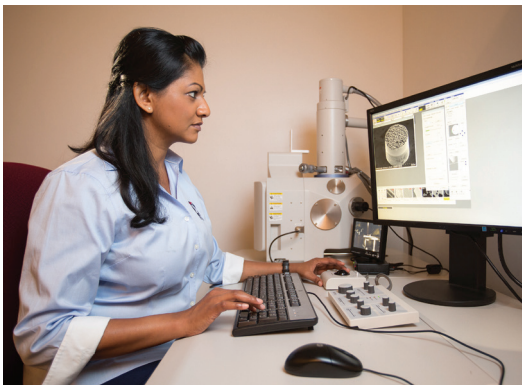


FREE CLEANING TRIALS AND PROCESS OPTIMIZATIONS

KYZEN will conduct complimentary trials at your factory or "risk-free" testing in one of our global Applications Laboratories in North America, Asia or Europe to ensure you achieve your goal. Increase your yields and product reliability by identifying and tuning the critical parameters of your cleaning process. With our commitment to science and understanding process, KYZEN has the flexibility to simulate and refine any cleaning process – including yours!

Each laboratory is fully equipped with an extensive array of cleaning and analytical equipment, including, but not limited to:

- *Batch Washers*
- *In-Line Washers*
- *Ultrasonic Systems*
- *SUI Systems*
- *Vapor Degreasers*
- *GC (TCD and FID)*
- *Scanning Electron Microscope (SEM)*
- *Ion Chromatography*
- *FTIR Spectrophotometer*
- *Humidity Chamber*
- *High Powered Microscopes*





Aqueous, Semi-Aqueous and Vapor Phase Chemistries • Process Evaluation and Optimization
Contract Cleaning • Cleanliness Testing • Soil Analysis

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