

# Master STAGES™ CLEAN 9640AL

**Washing Compound for Ultrasonic and Immersion Washers**

Master STAGES™ CLEAN 9640AL is a super-concentrated water-soluble cleaning fluid for cleaning aluminum alloy, alloy steel, stainless steel, cast iron, and other metal parts. With excellent anti-foam and tramp oil rejection characteristics, long-life, CLEAN 9640AL is especially recommended for low- to medium-pressure spray cleaning and is most suitable for single-chamber spray cleaning machines.

## Ultrasonics



*Ultrasonic parts washers — widely used in the medical, aerospace, automotive, mining, energy, and precision parts industries — offer results often far beyond that of traditional cleaning methods.*

*Master STAGES specifically developed ultrasonic in-process cleaners are highly effective in removing dirt, oils, rust, bacteria, grease, drawing compounds, waxy soil, and other contaminants from a wide variety of metals.*

*Whether cleaning aluminum, steels, cast iron, stainless steels, alloys, brass, bronze, copper, or magnesium, Master STAGES has the ultrasonic in-process alkaline product to get it really clean.*

*Offering exceptional wetting ability, reduced cycle times, longer bath life, and faster, safer precision parts cleaning, yet are environmentally friendly and free of SARA 313 reportable ingredients, Master STAGES ultrasonic cleaners are the cost-effective solution to achieving a matchless surface finish.*



## Choose CLEAN 9640AL:

- Low foaming
- Strong ability to resist oil
- Use a SCROUNDER™ or a SCROUNDER™ JR to extend the useful life of CLEAN 9640AL
- Good rust inhibition
- Excellent biostability
- Extremely low carryoff for very low total operation costs
- Very low foam and mist

## CLEAN 9640AL especially for:

**Applications** — immersion tanks, spray, and ultrasonic tanks

**Soils** — coolant residues, heavy oils, and light oils

**Metals** — aluminum alloys, brass, cast iron, copper, and steels

**Industries** — automotive and motorcycle

**CLEAN 9640AL is free of** — alkylphenol ethoxylates, amines, animal fats, barium, biocides, borates, DCHA, DEA, formaldehyde releasers, mineral oils, nitride, oil, phenols, secondary amines, silicates, sulfur, and zinc

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## Application Guidelines

- For spray cleaning of light oils, use at 3.0%, (33:1)
- For spray cleaning of moderate oils, use at 5.0%, (20:1)
- In general heated spray cleaning, use at 3.0% to 4.0% concentration at 50°C to 55°C
- For additional product application information, including performance optimization, please contact your Master Fluid Solutions' Authorized Distributor at <https://www.masterfluids.com/ap/en-ap/distributors/index.php>, your District Sales Manager, or email us at apac-info@masterfluids.com.

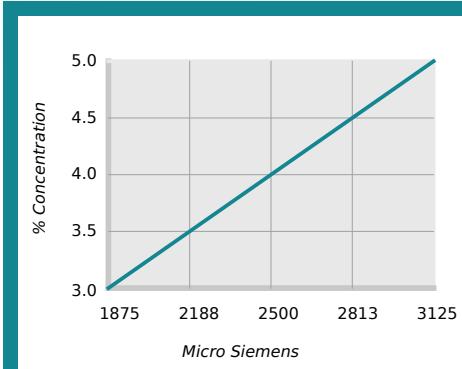
## Physical Properties Typical Data

Color (Concentrate)	Light yellow
Odor (Concentrate)	Mild, pleasant
Form (Concentrate)	Liquid
Flash Point (Concentrate) (ASTM D92-90)	> 100°C
pH (Concentrate as Range)	9.1 - 10.1
pH (Typical Operating as Range)	9.0 - 9.5
Coolant Refractometer Factor	3.3
Cleaner Conductivity Factor	0.00160
Titration Factor (CL-1 Titration Kit)	0.67
Number of Cleaner Vials (CL-1 Titration Kit)	1.0
Cleaner Indicator A or B (CL-1 Titration Kit)	B

## Recommended Metalworking Concentrations

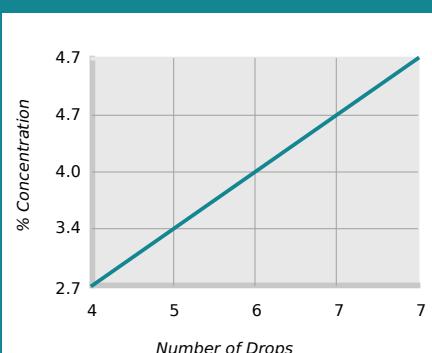
Design Concentration Range 3.0% - 5.0%

## Concentration by Conductivity



% Concentration = Conductivity in Micro Siemens x Factor  
Conductivity Factor = 0.00160

## Concentration by Titration



% Concentration = No. of Drops x Titration Factor  
Titration Factor = 0.67

## Health and Safety

Request SDS



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## Mixing Instructions

- Recommended usage concentration in water: 3.0% - 5.0%.
- To help ensure the best possible working solution, add the required amount of concentrate to the required amount of water (never the reverse) and stir until uniformly mixed.

## Ordering Information

20-liter pail

204-liter drum

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## Additional Information

- Industrial use only
- Consult Master Fluid Solutions before using on any metals or applications not specifically recommended.
- This product should not be mixed with other metalworking fluids or metalworking fluid additives, except as recommended by Master Fluid Solutions, as this may reduce overall performance, result in adverse health effects, or damage the machine tool and parts. If contamination occurs, please contact Master Fluid Solutions for recommended action.
- Master STAGES™ is a trademark of Master Chemical Corporation d/b/a Master Fluid Solutions.
- The information herein is given in good faith and believed current as of the date of publication and should apply to the current formula version. Because conditions of use are beyond our control, no guarantee, representation, or warranty expressed or implied is made. Consult Master Fluid Solutions for further information. For the most recent version of this document, please go to this URL:

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