

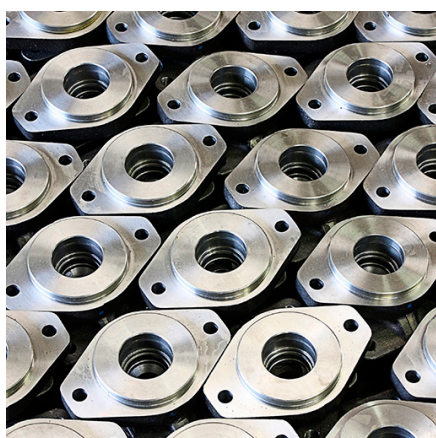
# Master STAGES™ CLEAN 2039

*Washing Compound for Ultrasonic and Immersion Washers*



Master STAGES™ CLEAN 2039 is a concentrated, very high performance cleaner made for washing all metals including cast iron and alloy steels. CLEAN 2039 can be used in spray-type and ultrasonic cleaning of light oils. CLEAN 2039 cleans the oil and metal residues off of the parts, while leaving a thin protective film to provide strong corrosion inhibition on ferrous metals. It is a good choice for cleaning cast iron parts.

## 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 2039:

- Provides strong corrosion inhibition
- To extend CLEAN 2039's wash bath life, it is very easy to remove tramp oils by using the XYBEX SCROUNGER™ or SCROUNGER™ JR Oil Skimmers
- Low foam even in the high-pressure washers

### CLEAN 2039 especially for:

**Applications** — corrosion inhibition, dip, dunk, immersion tanks, parts washing, and ultrasonic tanks

**Soils** — coolant residues and oils

**Metals** — cast iron, steel alloys, and steels

**Industries** — automotive, general industry, and job shop

**CLEAN 2039 is free of** — active sulfur, alkylphenol ethoxylates, ammonia, animal derived materials, animal fats, barium, biocides, borates, boron, chlorine, DCHA, DEA, formaldehyde releasers, halogens, heavy metals, kerosene, nitrates, nitride, nitrites, NPEs, oil, petroleum solvents, phenols, secondary amines, silicates, silicone, solvents, sulfur, and zinc

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## Application Guidelines

- Suggested temperature range between 50°C - 60°C for general spray cleaning.
- Suggested working concentration of 3% - 5%.

Type of Cleaning	Percent	Ratio
Spray cleaning light oil	3.0%	(1:33)
Spray cleaning moderate oil	5.0%	(1:20)

- Not recommended for cleaning aluminum and other nonferrous metals.
- 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](mailto:apac-info@masterfluids.com).

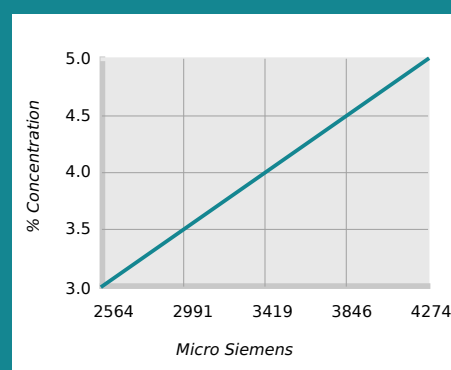
## Physical Properties Typical Data

Color (Concentrate)	Light yellow
Odor (Concentrate)	Mild, pleasant
Form (Concentrate)	Liquid
Flash Point (Concentrate) (ASTM D92-90)	> 100°C
pH (Concentrate as Range)	10.3 - 11.3
pH (Typical Operating as Range)	9.7 - 10.7
Coolant Refractometer Factor	2.4
Cleaner Conductivity Factor	0.00117
Titration Factor (CL-1 Titration Kit)	0.22
Number of Cleaner Vials (CL-1 Titration Kit)	1.0
Cleaner Indicator A or B (CL-1 Titration Kit)	B

## Recommended Metalworking Concentrations

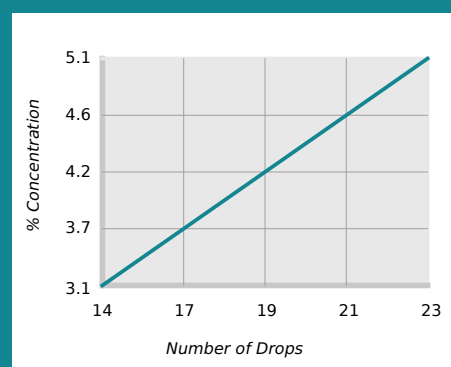
Design Concentration Range	3.0% - 5.0%
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## Concentration by Conductivity



% Concentration = Conductivity in Micro Siemens x Factor  
Conductivity Factor = 0.00117

## Concentration by Titration



% Concentration = No. of Drops x Titration Factor  
Titration Factor = 0.22

## 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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