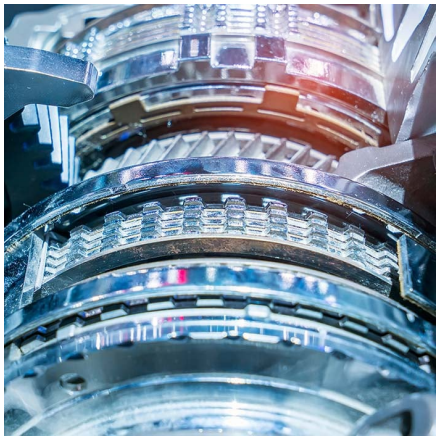
Master STAGES™ CLEAN 2029 'One Step'

Parts Washing Fluid with Corrosion Inhibitor

Master STAGES™ CLEAN 2029 "One Step" is a highly concentrated cleaner/corrosion inhibitor designed for spray washers and immersion tanks. This product will remove heavy soils and provide two-to-four weeks of indoor corrosion inhibition on steel and cast iron parts.

Automotive Components Manufacturer Reduces Cleaning Costs by 30% with Master STAGES™ CLEAN 2029 and Task2™ GF



A ground-breaking automotive components manufacturer and supplier based in India was consuming high volumes of cleaner and was still unable to clean the grease and residue from parts. That was until they made the switch to Master STAGES CLEAN 2029 "One Step," which led to impressive results - a significant reduction in cleaner consumption.

Choose CLEAN 2029:

- Formulated without silicates or other high pH additives, CLEAN 2029 "One Step" is compatible with ultrafiltration systems and bioremediation
- An excellent choice for cabinet-style spray washers and can be used for washing steel, stainless, cast iron, titanium, and many aluminum alloys
- Hard water tolerant, it provides long bath life
- Environmental approvals are simplified because CLEAN 2029 "One Step" contains no nitrites, barium, phenols, or butyl cellosolve
- This formula has very low V.O.C. content and no SARA 313 reportable ingredients
- Low foaming for use in high-pressure spray washers with temperatures above 140°F (60°C)

CLEAN 2029 especially for:

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

Soils — coolant residues, oils, and sulfurized oils

Materials — cast iron, stainless steels, steels, and titanium

Industries — automotive

CLEAN 2029 is free of — 2-butoxyethanol (Butyl), barium, high pH additives, nitrites, phenols, SARA 313 listed ingredients, and silicates

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Application Guidelines

- CLEAN 2029 "One-Step" is designed to be used at low concentrations:

Washer Type	Percent	Ratio
Spray washer - light soils	3.0%	(33:1)
Spray washer - heavy soils	5.0%	(20:1)
Immersion washer	5.0%-10.0%	(20:1-10:1)
Ultrasonic washer	3.0%-7.0%	(33:1-13:1)

- This product should be heated above 140°F in spray applications to avoid foaming. Ultrasonic or agitated immersion washers can often run at room temperature. The temperature limit for this product is 180°F, unless otherwise advised by your Master Fluid Solutions representative.
- For additional product application information, including performance optimization, please contact your Master Fluid Solutions' Authorized Distributor at https://www.masterfluids.com/th/en-th/distributors/index.php or your District Sales Manager, or email us at thailand-info@masterfluids.com.

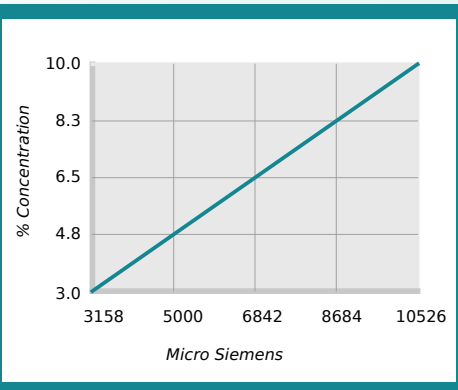
Physical Properties Typical Data

Color (Concentrate)	Clear light yellow
Color (Working Solution)	Opaque white
Odor (Concentrate)	Mild
Form (Concentrate)	Liquid
Flash Point (Concentrate) (ASTM D93-08)	> 102°C
pH (Concentrate as Range)	10.8 - 11.8
pH (Typical Operating as Range)	10.5 - 11.5
Coolant Refractometer Factor	5.5
Cleaner Conductivity Factor	0.00095
Titration Factor (CL-1 Titration Kit)	1.00
Number of Cleaner Vials (CL-1 Titration Kit)	2
Cleaner Indicator A or B (CL-1 Titration Kit)	A

Recommended Metalworking Concentrations

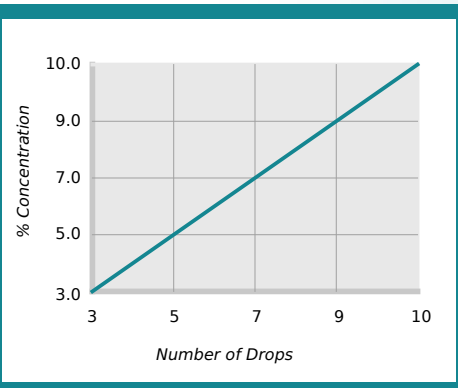
Design Concentration Range	3.0% - 10.0%

Concentration by Conductivity



% Concentration = Conductivity in Micro Siemens x Factor
Conductivity Factor = 0.00095

Concentration by Titration



% Concentration = No. of Drops x Titration Factor
Titration Factor = 1.00

Request SDS

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Mixing Instructions

- Recommended usage concentration in water: 3.0% - 10.0%.
- 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

1000-litre IBC

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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