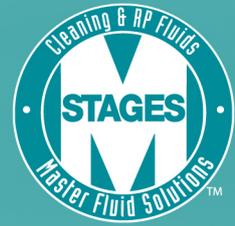


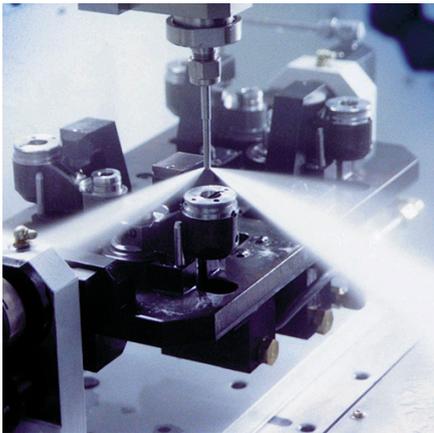
Master STAGES™ CLEAN 2115AL

Low Foam Spray Washing Compound



Master STAGES™ CLEAN 2115AL is an aluminium compatible, high performance, low foam synthetic washing compound for use in very high-pressure spray washers, de-burring, and water jet cutting. Advanced surfactant technology provides excellent foam control and tramp oil rejection.

Cleaners+RP



De-burring

Major Japanese manufacturer recommends CLEAN 2115AL for de-burring

Because CLEAN 2115AL de-burrs and cleans parts in their extremely high-pressure machines in one operation, a major Japanese manufacturer recommends it to their customers for use in their de-burring machines. Even at pressures up to 500 Bar, CLEAN 2115AL performs without foam or unwanted residue, for clean, well-protected parts.

Choose CLEAN 2115AL:

- Compatible with a wide range of materials including aluminium, cast iron, steels, zinc, plastics, and composites
- Resists foaming even when contaminated with large quantities of soils or coolant. This makes CLEAN 2115AL an excellent choice where rapid buildup of coolant carryover creates a foam problem
- Many CLEAN 2115AL applications are in the range of 3,000 to 10,000 PSI (200-700 Bar)
- Provides short term corrosion inhibition on cast iron and ferrous alloys

CLEAN 2115AL especially for:

Applications — corrosion inhibition, de-burring, high-pressure spray washing, parts washing, VHP spray (very high pressure), vibratory, water-jet cutting

Soils — coolant residues

Metals — aluminium, aluminium alloys, brass, bronze, cast iron, composites, copper, copper alloys, ferrous metals, plastics, steel alloys, steels and zinc

Industries — automotive

CLEAN 2115AL is free of — nitrites and silicates

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Application Guidelines

- In very high-pressure spray washers (over 1,000 PSI, 69 Bar), de-burrers or water jet cutters, typical concentrations are 3% to 5%, and operating temperatures are ambient up to 60°C.
- Foam may increase if the temperature is below 27°C at the point of agitation.
- For best corrosion resistance on ferrous parts, concentration should be kept between 5% and 10%.
- CLEAN 2115AL has excellent aluminum compatibility. However, it is wise to pre-check tolerance for high temperatures (over 50°C) or long exposure times (over 5 minutes) when washing 2000, 5000, or 7000 series wrought, or 300 series cast alloy.
- For additional product application information, including performance optimisation, please contact your Master Fluid Solutions' Authorised Distributor at <https://www.2trim.us/distributors.php>, your District Sales Manager, or call our Tech Line at +49 211 77 92 85 - 13.

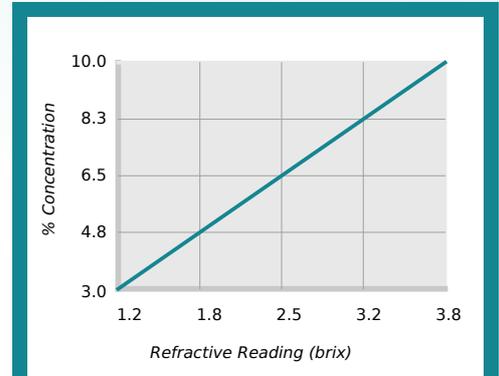
Physical Properties Typical Data

Colour (Concentrate)	Pale straw
Colour (Working Solution)	Colorless
Odour (Concentrate)	Mild amine
Form (Concentrate)	Liquid
Flash Point (Concentrate) (ASTM D93-08)	> 100°C
pH (Concentrate as Range)	9.0 - 9.5
pH (Typical Operating as Range)	8.3 - 8.7
Coolant Refractometer Factor	2.6
Cleaner Conductivity Factor	0.00180
Titration Factor (CL-1 Titration Kit)	0.28
Number of Cleaner Vials (CL-1 Titration Kit)	2
Cleaner Indicator A or B (CL-1 Titration Kit)	B

Recommended Metalworking Concentrations

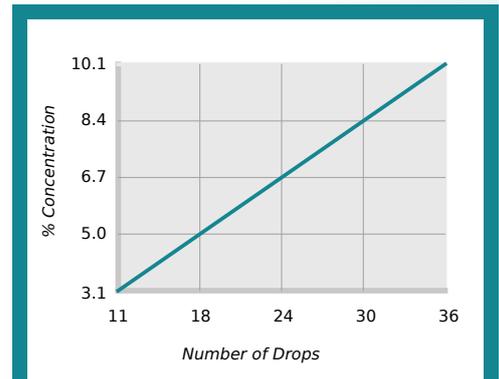
Design Concentration Range	3.0% - 10.0%
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Concentration by % Brix



% Concentration = Refractive Reading x Refractive Factor
Coolant Refractometer Factor % Brix = 2.6

Concentration by Titration



% Concentration = No. of Drops x Titration Factor
Titration Factor = 0.28

Health and Safety

For further information, see the most recent SDS which is available directly from Master Fluid Solutions or from your Master Fluid Solutions' Authorised Distributor.

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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-litre pail

204-litre drum

1000-litre IBC

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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:

https://2trim.us/di/?i=eu_en_CLEAN2115AL



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