



# Master STAGES™ CLEAN 2115AL

*Low-foam Spray Washing Compound*

## GENERAL DESCRIPTION

Master STAGES™ CLEAN 2115AL is an aluminum 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.

## ADVANTAGES

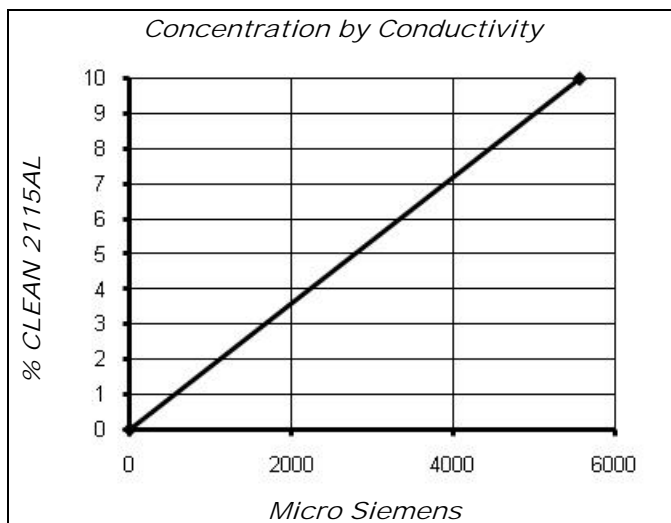
- Compatible with a wide range of materials including aluminum, cast iron, steels, zinc, plastics, and composites
- Resists foaming even when contaminated with large quantities of soils or coolant. This makes CLEAN 2115AL an excellent choice where rapid buildup of coolant carryover creates a foam problem
- Many CLEAN 2115AL applications are in the range of 3,000 to 10,000 PSI (200 to 660 kPa)
- Provides short term corrosion inhibition on cast iron and ferrous alloys
- Excellent biostability
- Extremely low carryoff keeps operating costs down
- Low foam and mist
- Very low initial odor level
- Exceptional sump life and great tramp oil rejection

## APPLICATION GUIDELINES

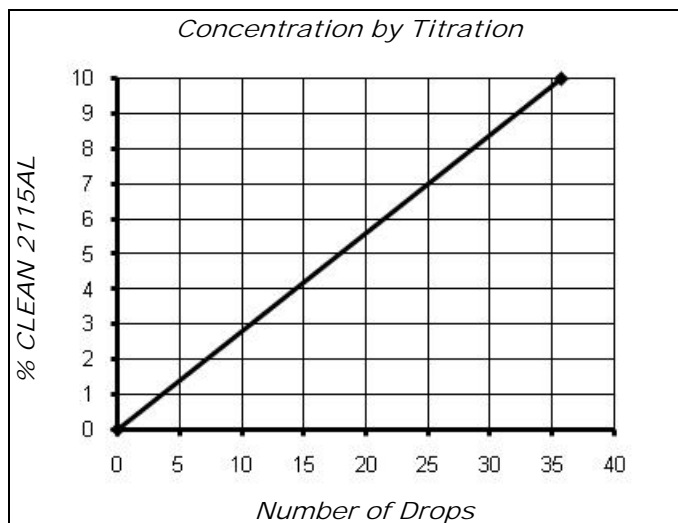
- In very high-pressure spray washers (over 1,000 PSI, 67 kPa), de-burrers or water jet cutters, typical concentrations are 3% to 5%, and operating temperatures are ambient up to 140°F (60°C).
- Foam may increase if the temperature is below 80°F (27°C) at the point of agitation.
- For best corrosion 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 120°F, 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 applications information including performance optimization, please contact your Master Chemical Authorized Distributor at [2trim.us/distributors.php](http://2trim.us/distributors.php), your District Sales Manager, the Tech Line at 1-800-537-3365, or visit our web site at [www.master-stages.com](http://www.master-stages.com).

## PHYSICAL PROPERTIES (TYPICAL DATA)

Color (Concentrate) .....	Yellow	Flash Point (Concentrate).....	215°F (102°C) (ASTM D-93)
Color (Working Solution) .....	Yellow	pH (Typical Operating as a Range).....	8.0-9.0
Odor .....	Mild	Conductivity Factor .....	0.0018
Form.....	Liquid	Titration Factor (CL-1 Titration Kit).....	0.28



% Concentration = Conductivity in Micro Siemens x Factor  
 Conductivity Factor = 0.0018



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

### CHECKING CONCENTRATION

CLEAN 2115AL concentration may be checked by titration for working solutions.

### TITRATION

Use Master STAGES™ Titration Kit CL 1, Indicator B, and two vials of working solution.

Drops of Acid	0	8	16	24	32	40
% CLEAN 2115AL	0%	2.08%	4.16%	6.24%	8.32%	10.4%

Titration Formula: Drops of Acid x 0.28 = % Concentration of CLEAN 2115AL

### MIXING INSTRUCTIONS

The recommended use concentration of CLEAN 2115AL is 3%-10% in water. No special mixing procedures are required. Add the required amount of concentrate to the required amount of water and stir or operate the washer until uniformly mixed.

### HEALTH & SAFETY

See the most recent SDS at [2trim.us/s/?i=1114-en-US-US](http://2trim.us/s/?i=1114-en-US-US).



### NOTES

- Packaging: North America – 1-gallon jug, 5-gallon pail, 54-gallon drum, 270-gallon tote bin.
- Packaging: Europe/Asia – 20-litre pail, 204-litre drum, and 1000-litre IBC.

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