



Master STAGES™ CLEAN 2012

Low-foaming, Nonsilicated Cleaner for Aluminum and Multi-metal

GENERAL DESCRIPTION

Master STAGES™ CLEAN 2012 is a highly-concentrated cleaner built for spray washing aluminum and other metals at ambient to slightly elevated temperatures. The mild pH of this product means it is compatible with most waste treatment (including ultrafiltration) and it does not contain boron, phenols, or silicates.

ADVANTAGES

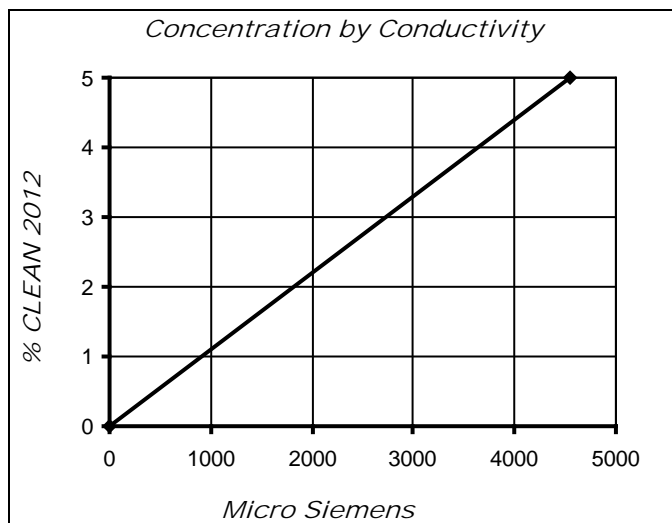
- With a mild pH, CLEAN 2012 will not cause staining on aluminum or yellow metals
- Formulated without silicates or other high pH additives, CLEAN 2012 is compatible with ultrafiltration systems and bio-remediation
- An excellent choice where one product is used for multiple metals, as it is compatible with both ferrous and nonferrous materials (except magnesium)
- Hard water tolerant, CLEAN 2012 has only moderate foam at room temperature
- Contains no borates or nitrites, no SARA 313 or EPA 33/50 listed ingredients and contains no butyl cellosolve
- Economical and effective for removing coolants and light oils

APPLICATION GUIDELINES

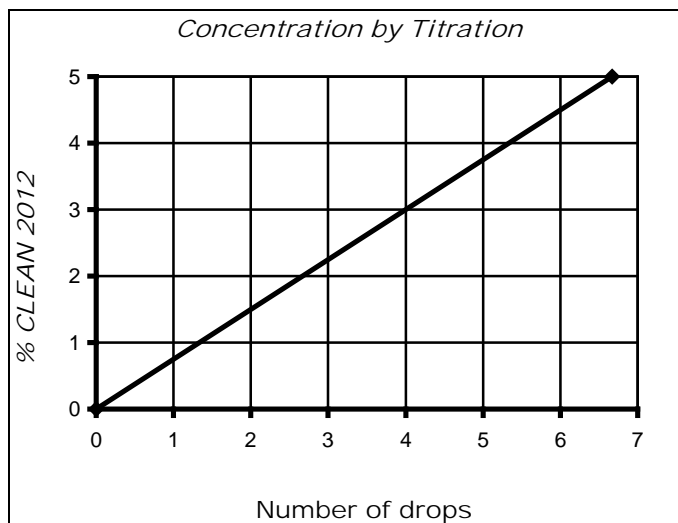
- CLEAN 2012 is designed to be used at low concentrations:
 - Spray washing light soils 1.0%-3.0% (66:1-33:1)
 - Spray washing heavier soils 2.0%-4.0% (50:1-25:1)
 - Vibratory finishing 0.25%-0.5% (400:1-200:1)
- CLEAN 2012 can be used at room temperature up to 160°F.
- For additional product applications information including performance optimization, please contact your Master Chemical Authorized Distributor at 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.

PHYSICAL PROPERTIES (TYPICAL DATA)

Color (Concentrate)	Yellow	Flash Point (Concentrate).....	None to boiling (COC)
Color (Working Solution)	Light yellow	pH (Typical Operating as a Range)	8.5-10.0
Odor	Mild	Conductivity Factor0011
Form.....	Liquid	Titration Factor (CL-1 Titration Kit)	0.75



% Concentration = Conductivity in Micro Siemens x Factor
 Conductivity Factor = .0011



% Concentration = No. of Drops x Titration Factor
 Titration Factor = 0.75 two vials

CHECKING CONCENTRATION

CLEAN 2012 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	2	4	6	8	10
% CLEAN 2012	1.3%	2.6%	3.8%	5.1%	6.4%

Titration Formula: Drops of Acid x 0.75 = % Concentration of CLEAN 2012

MIXING INSTRUCTIONS

The recommended use concentration of CLEAN 2012 is 0.25%-5% 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=1288-en-US-US.



NOTES

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

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