



Master STAGES™ CLEAN 2017

Economical Heavy-Duty Spray Cleaner

GENERAL DESCRIPTION

Master STAGES™ CLEAN 2017 is an economical heavy-duty spray cleaner that removes heavy soils and oily residues from ferrous and magnesium parts. Often used in rebuild operations and for cleaning up cast iron, stamped or drawn steel parts, or removing heavy RP coatings.

ADVANTAGES

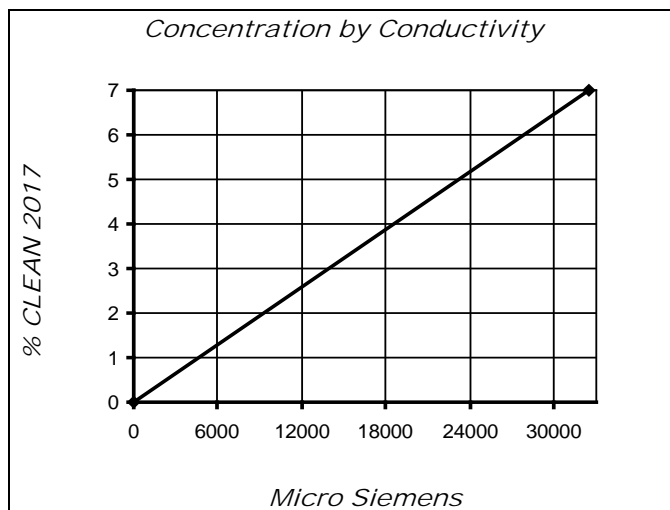
- Very economical way to remove heavy soils and light rust
- Low foaming at ambient temperatures, and even lower when used above 120°F (49°C)
- Can be recycled using XYBEX® equipment
- Contains no solvents, borates, silicates, nitrites, or amines
- Long bath life
- Excellent compatibility with magnesium
- Will prevent flash rusting and provide one-to-two days of in-process corrosion inhibition if not rinsed

APPLICATION GUIDELINES

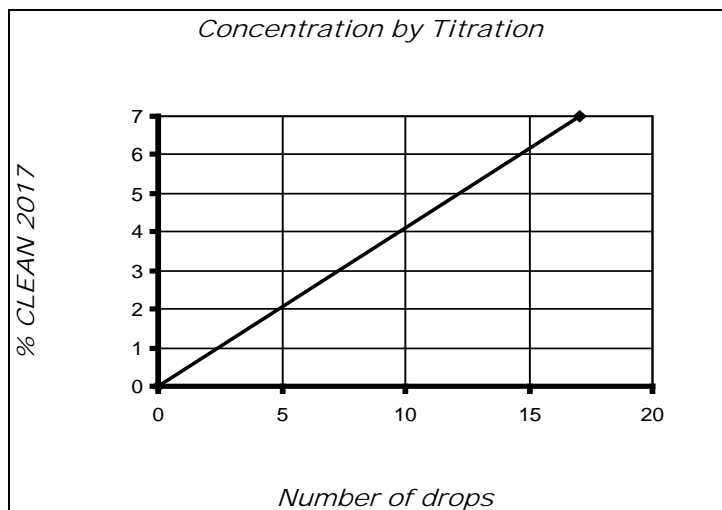
- CLEAN 2017 is normally used at concentrations from 1%-7%. We recommend 3% as a starting concentration to provide reserve surfactant.
- This product is suitable only for steel, stainless steel, cast iron, titanium, pure copper, and magnesium parts. Do not use on aluminum alloy, copper alloy, or zinc.
- Operating temperature should be between 70°F to 210°F (21°C to 99°C) for spray cleaning.
- CLEAN 2017 will work well in immersion washers as well as ultrasonic baths under 120°F (49°C).
- High pH cleaners such as CLEAN 2017 often produce “soaps” as part of their cleaning action. CLEAN B1 is effective at reducing foam resulting from the formation of these soaps and may be used in conjunction with CLEAN 2017.
- 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)	Light yellow	Flash Point (Concentrate).....	None to boiling (COC)
Color (Working Solution)	Light yellow	pH (Typical Operating as a Range)	12.5-13.0
Odor.....	Mild, detergent	Conductivity Factor	0.00021
Form	Liquid	Titration Factor (CL-1 Titration Kit)	0.41



% Concentration = Conductivity in Micro Siemens x Factor
 Conductivity Factor = .00021



% Concentration = No. of Drops x Titration Factor
 Titration Factor = 0.41 one vial

CHECKING CONCENTRATION

CLEAN 2017 concentration may be checked by titration for working solutions. Only fresh charges may be checked by refractometer.

TITRATION

Use Master STAGES Titration Kit CL-1, Indicator A, and one vial of working solution

Drops of Acid	3	5	8	12	17
% CLEAN 2017	1.2%	2%	3.3%	5%	7%

Titration Formula: Drops of Acid x 0.41 = % Concentration of CLEAN 2017

MIXING INSTRUCTIONS

The recommended use concentration of CLEAN 2017 is 1%-7% in water. No special mixing procedures are required. Add the required amount of concentrate to the required amount of water and stir until uniformly mixed.

HEALTH AND SAFETY

CLEAN 2017 is highly caustic with a pH above 13. In the concentrated form, contact with skin can cause serious alkali burns, and contact with the eyes can cause blindness. Full eye and skin protection must be worn while handling this product. For further information, see the most recent SDS at 2trim.us/s/?i=1112-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, 1000-litre IBC.

The information herein is given in good faith and believed current as of the date of this Data & Information sheet 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 Chemical Corporation for further information. For the most recent version of this document, please go to this URL:

2trim.us/di/?i=141

Master STAGES™ is a trademark of Master Chemical Corporation

© 2007-2015 Master Chemical Corporation • Revised October 28, 2015