Master STAGES™ CLEAN 2020

Washing Compound for Ultrasonic and Immersion Washers

GENERAL DESCRIPTION

Master STAGES™ CLEAN 2020 is a concentrate very high-performance cleaner made for washing all metals including brass, copper alloy, and aluminum in ultrasonic or immersion washers. Its cleaning ability is extraordinary, which often leads to shorter cleaning cycles or elimination of cleaning steps. CLEAN 2020's oil rejecting properties mean longer bath life and economical operation.

ADVANTAGES

- Excellent cleaning in immersion and ultrasonic tanks
- Long life because oils split rapidly to the surface of your cleaner tank where they can be skimmed off
- An excellent choice where one product is used for multiple purposes; such as washing mixed batches of ferrous, aluminum, and copper alloy parts
- Will provide extended in-process tarnish resistance on copper and copper alloy parts
- Safe on aluminum, aluminum alloy, and magnesium
- Contains no borates, phenols, or nitrites, no SARA 313 or EPA 33/50 listed ingredients, and contains no butyl cellusolve
- Will remove coolant residues as well as straight oils

APPLICATION GUIDELINES

- In ultrasonic washers, CLEAN 2020 should be kept under 160˚F (49˚C).
- In agitated immersion washers, CLEAN 2020 can operate from ambient to 160˚F (71˚C).
- Concentrations range from 3% for washing off coolant up to 5%-10% for washing off straight oils.
- Straight oils require skimming as they will split rapidly to the surface. CLEAN 2020 has no cloud-point so foam will remain constant as temperature increases. CLEAN 2020 has been used with great results removing screw machine oils in low-pressure spray washers, such as auger/drum-style washers, where the oil helps break foam.
- CLEAN 2020 does not provide corrosion inhibition for ferrous parts. If such protection is needed, follow the washing process with Master STAGES™ NOCOR® S2, or Master STAGES™ CLEAN 2029 (not compatible with Master STAGES™ CLEAN 2115).
- 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)	Pale yellow
Color (Working Solution)	Pale yellow
Odor	Mild
Form	Liquid
Flash Point (Concentrate)…..	Nonflammable (COC)
pH (Typical Operating as a Range)	11.5-12.5
Conductivity Factor	.00075
Titration Factor (CL-1 Titration Kit)	0.45

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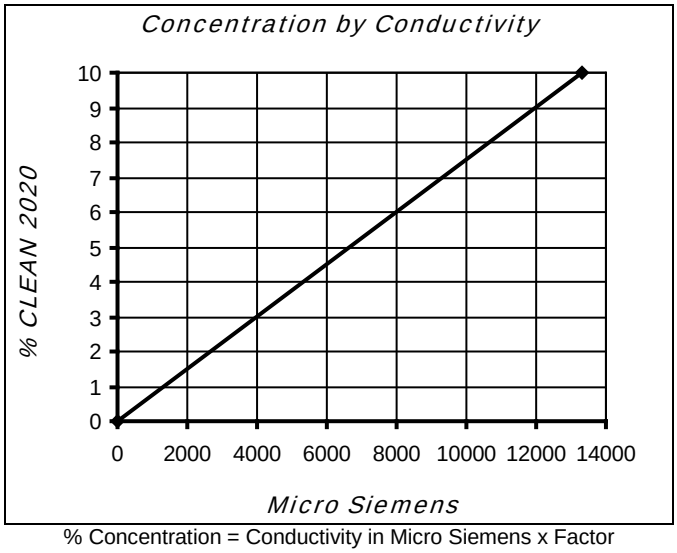
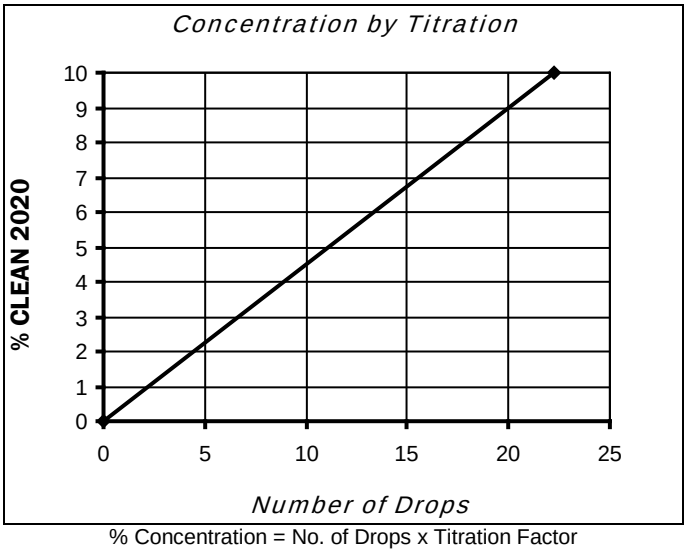


% Concentration = Conductivity in Micro Siemens x Factor
Conductivity Factor = 0.00075



% Concentration = No. of Drops x Titration Factor
Titration Factor = 0.45 Two Vials

CHECKING CONCENTRATION

CLEAN 2020 concentration may be checked by titration or conductivity for working solutions.

TITRATION

Use Master Chemical Titration Kit CL-1, Indicator A, and two vials of working solution.

Drops of Acid	5	7	11	14	22
% CLEAN 2020	2%	3%	5%	6%	10%

Titration Formula: Drops of Acid x 0.45 = % Concentration of CLEAN 2020

MIXING INSTRUCTIONS

The recommended use concentration of CLEAN 2020 is 3%-10% in water. No special mixing procedures are required. Add the required amount of CLEAN 2020 concentrate to the required amount of water and stir until uniformly mixed.

HEALTH & SAFETY

Avoid prolonged and/or repeated skin and inhalation contact with spray mist. For further information see the most recent SDS at www.2trim.us/s/?i=1137-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.