Master STAGES™ CLEAN 3011

Residue-free, Multi-metal Cleaner

GENERAL DESCRIPTION

Master STAGES™ CLEAN 3011 is a concentrated multi-purpose fluid that excels as a liquid parts washing compound or corrosion inhibitor and does not foam even at room temperature in high-pressure spray washers. It will remove light oils and water soluble cutting and grinding fluid residues and leave behind a thin rust inhibiting film for in-process corrosion inhibition of ferrous parts. CLEAN 3011 is also safe for use on aluminum alloy, copper, brass, bronze, and zinc. CLEAN 3011 is an excellent choice in cast iron operations where it can be used for cleaning and rust inhibition with excellent biostability.

ADVANTAGES

- Silicate, phosphate, and boron free and leaves no powdery residue
- Low foaming for use in high-pressure spray washers or grinders and has excellent hard water stability
- Has a moderate pH, excellent anti-corrosion, and does not require rinsing, making it an excellent short-term, in-process corrosion inhibitor
- This product maintains its alkalinity and biostability for long periods of time and will tolerate stagnant conditions such as leak test baths. It is also used in hydrostatic leak testing applications

APPLICATION GUIDELINES

- For removal of light coolant residue in a spray washer. A starting rate of 3%-5% is recommended.
- Operating temperature should be in the range of ambient to 140°F (60°C). When used in this manner, generally 14-21 days of dry indoor rust protection will be achieved on steel or cast iron.
- This product can be used at 10% concentration in a dip tank to provide up to three weeks of dry indoor rust protection on ferrous parts. It is also recommended for immersion leak test tanks, aqueous pressure test medium, and for biostability and corrosion prevention in water tanks used in plasma and torch cutting systems.
- 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)	Dark orange
Color (Working Solution)	Light orange
Odor	Strong amine
Form	Liquid
Flash Point (Concentrate)	None to boiling (COC)
pH (Typical Operating as a Range)	9.0-9.5
Conductivity Factor	0.002
Titration Factor (CL-1 Titration Kit)	0.27

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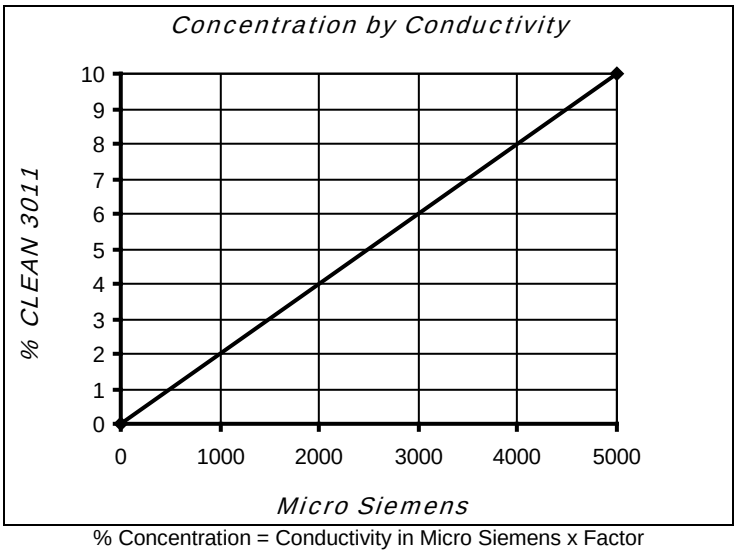
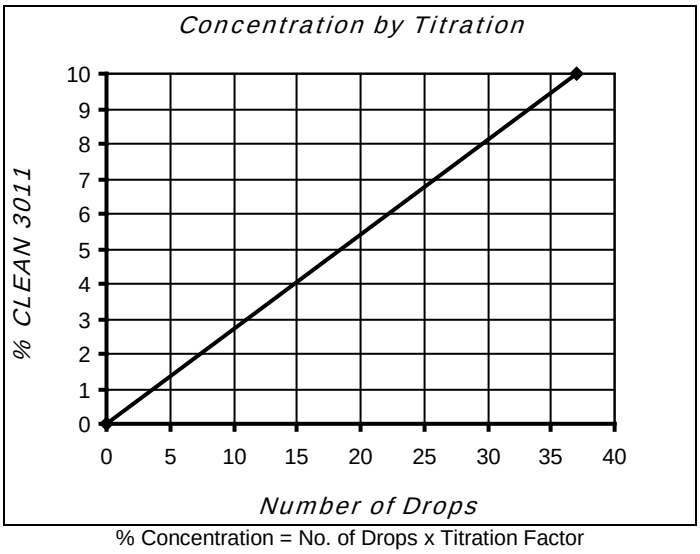


% Concentration = Conductivity in Micro Siemens x Factor
Conductivity Factor = 0.002



% Concentration = No. of Drops x Titration Factor
Titration Factor = 0.27

CHECKING CONCENTRATION

Concentration may be checked by titration or conductivity for working solutions.

TITRATION

Use Master STAGES Titration Kit CL-1, Indicator B, two vials of working solution

Drops of Acid	11	19	26	37
% CLEAN 3011	3%	5%	7%	10%

Titration formula: Drops of acid x 0.27 = % Concentration of CLEAN 3011

MIXING INSTRUCTIONS

The recommended use concentration of CLEAN 3011 is 3%-10% in water. No special mixing procedures are required. Add the required amount of CLEAN 3011 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=1289-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.