# Master STAGES™ CLEAN 3011

## *Residue-free, Multi-metal Cleaner*

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.

## *Cleaners+RP*



*Master STAGES™ CLEAN family of advanced-technology products offer highly effective cleaning and with the same in-process "one-step" method, leave behind an effective, short-term, anticorrosive film.*

*Designed for specific metals, desired length of corrosion inhibition, and applications ranging from spray, immersion, ultrasonic parts, and dip tank cleaning, Master STAGES cleaners+RP inhibitors are all highly concentrated and economical, most with low foam and very low V.O.C. content.*

### Choose CLEAN 3011:

- Silicate, phosphate, and boron free
- 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
- CLEAN 3011 maintains its alkalinity and biostability for long periods of time and will tolerate stagnant conditions such as leak test baths and hydrostatic leak testing applications

### CLEAN 3011 especially for:

**Applications** — corrosion inhibition, high-pressure spray washing, leak detection, and parts washing

**Soils** — coolant residues

**Materials** — aluminum alloys, brass, bronze, cast iron, copper, ferrous metals, steels, and zinc

**Industries** — all

**CLEAN 3011 is free of —** boron, phosphate, and silicates

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## 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 application information, including performance optimization, please contact your Master Fluid Solutions' Authorized Distributor at https://www.masterfluids.com/in/en-in/distributors/index.php, your District Sales Manager, or email us at india-info@masterfluids.com.

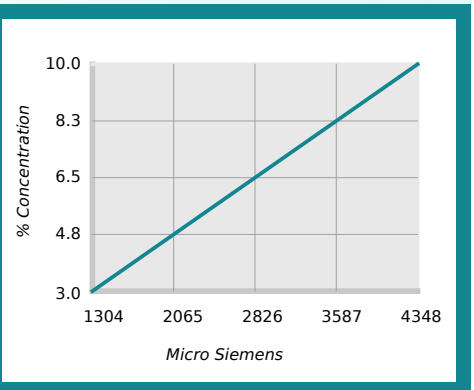
## Physical Properties Typical Data

| | |
|---|---|
| Color (Concentrate) | Yellow |
| Color (Working Solution) | Colorless to light yellow |
| Odor (Concentrate) | Strong amine |
| Form (Concentrate) | Liquid |
| Flash Point (Concentrate) (ASTM D92-90) | > 100°C |
| pH (Concentrate as Range) | 8.5 - 9.0 |
| pH (Typical Operating as Range) | 8.4 - 9.0 |
| Coolant Refractometer Factor | 2.5 |
| Cleaner Conductivity Factor | 0.00230 |
| Titration Factor (CL-1 Titration Kit) | 0.23 |
| Number of Cleaner Vials (CL-1 Titration Kit) | 2 |
| Cleaner Indicator A or B (CL-1 Titration Kit) | B |

## Recommended Metalworking Concentrations

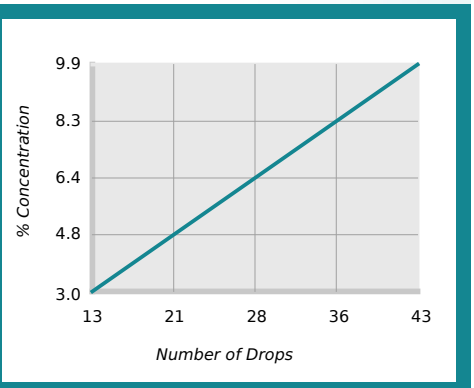
| | |
|---|---|
| Design Concentration Range | 3.0% - 10.0% |

## Concentration by Conductivity




% Concentration = Conductivity in Micro Siemens x Factor
Conductivity Factor = 0.00230

## Concentration by Titration




% Concentration = No. of Drops x Titration Factor
Titration Factor = 0.23

## Health and Safety

Request SDS

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## Mixing Instructions

- Recommended usage concentration in water: 3.0% - 10.0%.
- To help ensure the best possible working solution, add the required amount of concentrate to the required amount of water (never the reverse) and stir until uniformly mixed.

## Ordering Information

20-litre pail

204-liter drum

1000-litre IBC

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## Additional Information

- Industrial use only
- Consult Master Fluid Solutions before using on any metals or applications not specifically recommended.
- This product should not be mixed with other metalworking fluids or metalworking fluid additives, except as recommended by Master Fluid Solutions, as this may reduce overall performance, result in adverse health effects, or damage the machine tool and parts. If contamination occurs, please contact Master Fluid Solutions for recommended action.
- Master STAGES™ is a trademark of Master Chemical Corporation d/b/a Master Fluid Solutions.
- The information herein is given in good faith and believed current as of the date of publication 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 Fluid Solutions for further information. For the most recent version of this document, please go to this URL:

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