Master STAGES™ CLEAN F2™

Non-butyl Floor and Multi-purpose Cleaner

Master STAGES™ CLEAN F2™ is a super concentrate that does an outstanding job in floor cleaning and other multi-purpose uses. In addition to its primary job in automatic floor scrubbers, it is often used for general-purpose cleaning, mop bucket cleaning, and parts washing in room temperature wash tanks. The mild pH of this product means it is compatible with most waste treatment (including ultrafiltration) and it will not degrade TRIM metalworking fluids with which it may come into incidental contact.

Global Tool Manufacturer Reduces Cleaner Costs by 15% with Master Fluid Solutions®



Since the mid 1800s, our customer has built their tool manufacturing empire into a catalog of globally recognized brands and services. Their growing product portfolio encompasses consumer and industrial tools, vehicle and electronic fasteners, and even cutting-edge security services.

Aerospace Approvals

Company	Specification
Boeing	No specification available
Raytheon Technologies/Collins Aerospace/Pratt & Whitney	No specification available

Choose CLEAN F2:

- With a mild pH and low conductivity, CLEAN F2 will not cause splitting of TRIM coolants
- Formulated without silicates or other high pH additives, CLEAN F2 is compatible with ultrafiltration systems and bioremediation
- CLEAN F2 has been proven nonirritating to skin at 20% concentration
- Excellent choice for use in spray bottles up to 20%
- Use for general cleaning tasks and to remove soils from parts and tools
- Operators like CLEAN F2's mild, pleasant citrus scent
- Environmental approvals are simplified because CLEAN F2 contains no nitrites, barium, phenols, or butyl cellusolve; and has very low V.O.C. content and no SARA 313 reportable ingredients
- Effective mop bucket cleaner
- Use in floor scrubber machines
- Will remove heavy soils from floors without lifting off floor paints, coatings, or leaving a slippery residue; suitable for concrete, painted, tile, or linoleum floors

CLEAN F2 especially for:

Applications — automatic floor scrubbers, floor cleaning, general-purpose cleaning, hard surface cleaning, mop bucket cleaning, multi-purpose cleaning, parts washing, and spray bottle

Soils — coolant residues and light oils

Materials — cast iron, steels, and zinc

Industries — aerospace, automotive, bearing, diecast, green, job shop, and medical

CLEAN F2 is free of — 2-butoxyethanol (Butyl), barium, high pH additives, nitrites, NPEs, phenols, SARA 313 listed ingredients, and silicates

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Application Guidelines

- CLEAN F2 for use at low concentrations:

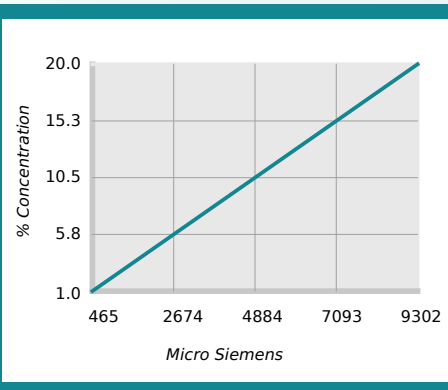
Washing Method	Percent	Add Rate
Power washers and steam cleaners	1% - 3%	1½ - 4 oz. /gal.
Floor scrubber machines	1½% - 3%	2 - 4 oz. /gal.
Mop buckets	5% - 10%	6½ - 13 oz. /gal.
Parts washing (immersion type)	10%	13 oz. /gal.
Hard surface cleaning (spray bottle or bucket)	20%	26 oz. /gal.

- CLEAN F2 is also effective in immersion style washers and ultrasonic baths, and can be used at room temperature up to 160°F (71°C).
- For additional product application information, including performance optimization, please contact your Master Fluid Solutions' Authorized Distributor at https://www.masterfluids.com/th/en-th/distributors/index.php or your District Sales Manager, or email us at thailand-info@masterfluids.com.

Physical Properties Typical Data

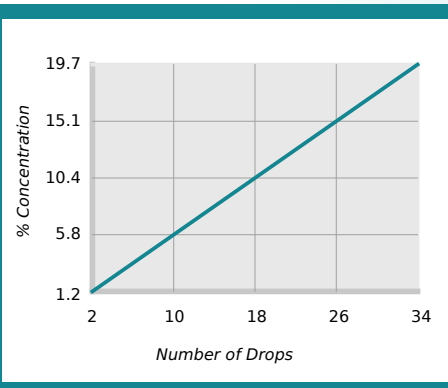
Color (Concentrate)	Blue
Color (Working Solution)	Blue
Odor (Concentrate)	Mild citrus
Form (Concentrate)	Liquid
Flash Point (Concentrate) (ASTM D93-08)	> 102°C
pH (Concentrate as Range)	11.4 - 12.4
pH (Typical Operating as Range)	10.2 - 11.2
V.O.C. Content (EPA Method 24)	0 lbs/gal
Cleaner Conductivity Factor	0.00215
Titration Factor (CL-1 Titration Kit)	0.58
Number of Cleaner Vials (CL-1 Titration Kit)	4
Cleaner Indicator A or B (CL-1 Titration Kit)	B

Concentration by Conductivity



% Concentration = Conductivity in Micro Siemens x Factor
Conductivity Factor = 0.00215

Concentration by Titration



% Concentration = No. of Drops x Titration Factor
Titration Factor = 0.58

Request SDS

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Mixing Instructions

- 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-liter pail

204-liter drum

1000-litre IBC

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:

https://2trim.us/di/?i=th_en-th_CLEANF2

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