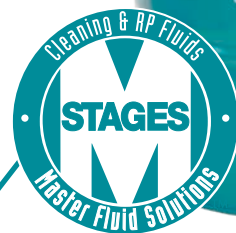




Master Fluid
SOLUTIONS®

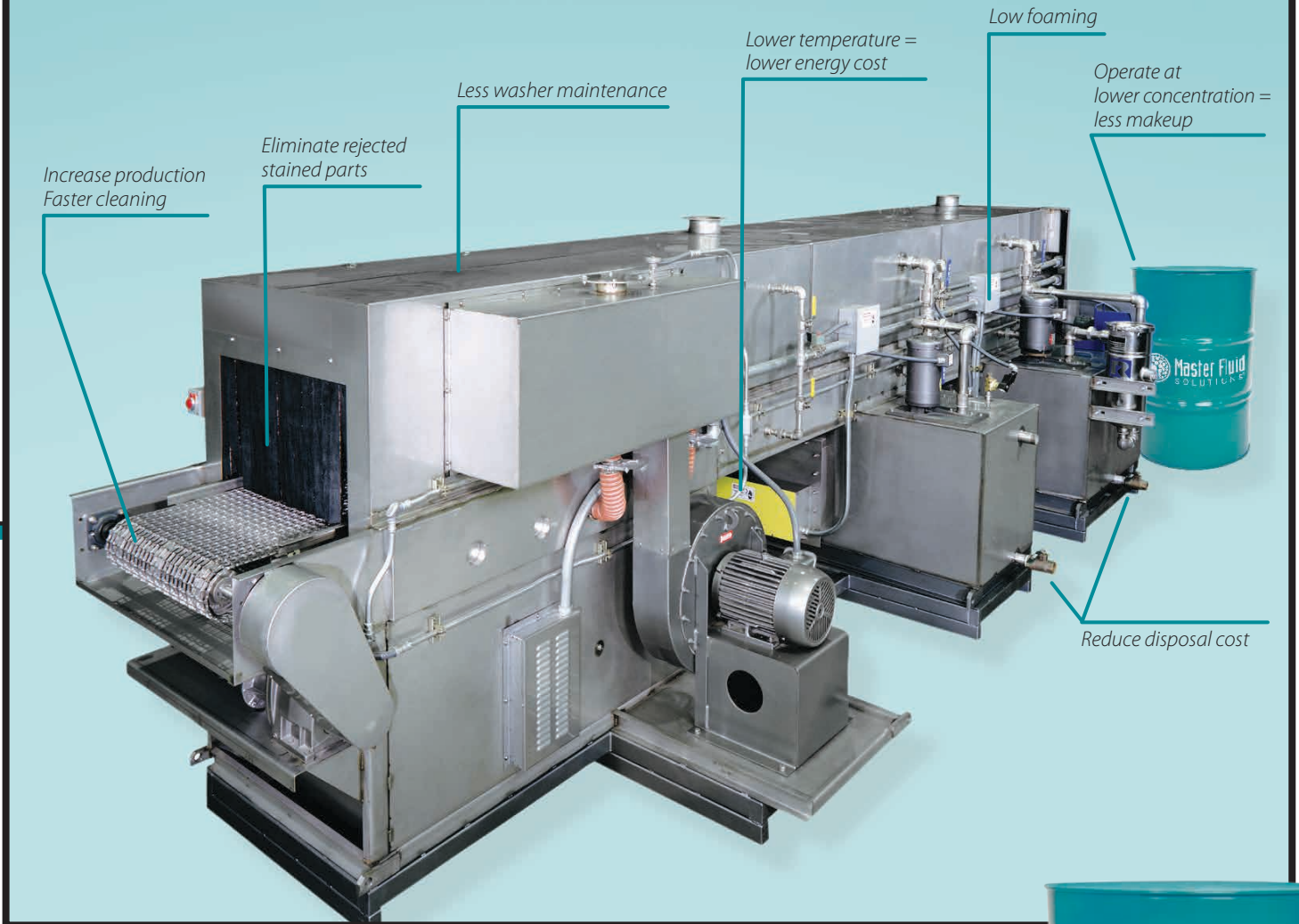
Master STAGES™
High-performance Washing Compounds





Master Fluid
SOLUTIONS®

Master STAGES™ cleaners for the competitive edge



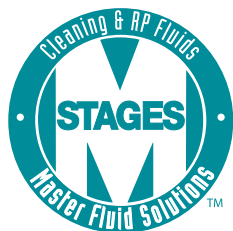
*To clean and protect, rely on
hard-working Master STAGES™*

- > provide excellent cleaning in spray, immersion, or ultrasonic parts vibratory finishing applications
- > preform multi-metal operations
- > broad contaminant fluid removal
- > protect parts from corrosion
- > reduce disposal costs

*Have questions? Call our
TECH SERVICE HOT LINE
1-800-537-3365 (8-5 EST, M-F)*



Product	Features	Main Uses	Temperature Range	Concentration Range %	pH (in use)		
SPRAY PARTS WASHING WITH CLEAN PRODUCTS							
CLEAN 2017	Low cost, heavy-duty spray cleaner. Very low foam. Excellent cleaning of coolants and oils at low, energy-saving temperatures.	Low foaming at ambient temperature, very low foam over 105°F (41°C). Safe for steel, cast iron, titanium, magnesium. Do not use on aluminum, brass, or zinc.	Ambient-160°F (71°C)	1%-5%	12.6-13.1		
CLEAN IP 2019s	Very low-foaming; energy-saving, low-temperature spray cleaner. Phosphate and amine-free.	For ferrous metals and aluminum. Multi-metal safe; longer lasting RP and splits oil for easy removal.	70°-140°F (21° to 60°C)	0.05%-5%	11.0 -12.2		
CLEAN 2029 "One Step"	High detergency with controlled foam, great cleaning and good in-process RP. Mild pH means safer working environment. Multi-metal compatible.	Spray, ultrasonic, or dunker washing of steel, cast iron, and powdered metal parts. Safe on most aluminum and yellow metals when used at lower temperatures.	140°-180°F (60° to 82°C)	3%-5%	10.6-11.0		
CLEAN 2115AL	Bio-stable, synthetic cleaner for very high-pressure washers with short-term RP. Aluminum compatible.	Like CLEAN 2115 with better aluminum compatibility. For water jet cutting, leak test, and plasma cutting tanks.	Ambient-140°F (60°C)	0.5%-5%	8.0-9.0		
CLEAN 2430	Maximum ability to split oils out of cleaner bath. Great cleaning, near-neutral pH. Multi-metal safe.	Removal of straight oils; oil splitting capability with very long bath life; good in-process RP for ferrous parts.	Ambient-150°F (66°C)	0.5%-5%	8.0-8.7		
IMMERSION PARTS WASHING WITH CLEAN PRODUCTS							
CLEAN 2017	Low cost, high pH cleaner for ferrous, magnesium, titanium, and pure copper (not aluminum, brass, or zinc).	Medium-duty immersion washing of ferrous parts. Do not heat over 120°F (49°C) unless washer is agitated.	Ambient-160°F (71°C)	3%-7%	12.6-13.1		
CLEAN 2020	Very fast cleaning even at energy-saving low temperatures. Good oil splitting; built-in RP. Phosphate free.	Immersion or ultrasonic cleaning of all metals. Can use at high temperature over 130°F (54°C).	Ambient-160°F (71°C)	3%-10%	11.5-12.5		
CLEAN 2029 "One Step"	High detergency with controlled foam, great cleaning, and in-process RP. Mild pH for safer working environment.	Spray, ultrasonic, or dunker washing of steel, cast iron, most aluminum/yellow metals at lower temperatures.	Ambient-160°F (71°C)	5%-10%	10.6-11.0		
CLEAN 2030	Phosphate-free, multi-metal friendly. Similar to CLEAN 2020 with added corrosion inhibitors.	High-performance, ultrasonic or immersion with ferrous RP. Cleans at high or energy-saving temperatures.	Ambient-160°F (71°C)	3%-10%	10.5-11.0		
RINSE 100	Multi-purpose detergent with pine oil. Mild pH and light pine scent - a favorite for general machine shop cleaning.	Excellent ultrasonic cleaner. Great soak cleaner for oily soils. Safe to use on most metals.	Ambient-135°F (57°C)	3%-10%	9.0-9.6		
Whamex™	The best tool and system cleaner ever! Removes tough soils at low temperatures.	For single step immersion washing of ferrous metals. Excels on gray cast iron; up to one week of RP.	Ambient-120°F (49°C)	3%-5%	10.5-10.6		
ULTRASONIC PARTS WASHING WITH CLEAN PRODUCTS							
CLEAN 2020	Very fast cleaning even at energy-saving low temperatures. Good oil splitting; built-in RP. Phosphate free.	Immersion or ultrasonic cleaning of all metals. Can use at high temperature over 130°F (54°C).	Ambient-160°F (71°C)	3% -10%	11.5-12.5		
CLEAN 2030	Phosphate-free, multi-metal friendly. Similar to CLEAN 2020 with added corrosion inhibitors.	High-performance, ultrasonic or immersion with ferrous RP. Cleans at high or energy-saving temperatures.	Ambient-160°F (71°C)	3%-10%	10.5-11.0		
RINSE 100	Multi-purpose detergent with pine oil. Mild pH and light pine scent - a favorite for general machine shop cleaning.	Excellent ultrasonic cleaner. Great soak cleaner for oily soils. Safe to use on most metals.	Ambient-135°F (57°C)	3%-10%	9.0-9.6		
Product	Features	Main Uses	Typical Storage Time	Concentration Range %	Flash Point*	Humidity Cabinet Test ASTM D1748	ASTM B117 Salt Fog
EMULSION WATER-BASED RUST PREVENTATIVES							
NOCOR® E6	RP for steel, cast iron, yellow metals. Effective at 4%-12%. No boron or barium.	Spray or dunk applied RP for in-process protection or before packaging.	up to 6 months (depending on dilution)	3%-16%	none	100 hrs. no rust @ 12%	3 hrs. very slight
SYNTHETIC WATER-SOLUBLE RUST PREVENTATIVES							
NOCOR® S2	Synthetic, water-cut, shorter-term RP. Economical at low dilutions. Barium-free, low V.O.C.	Used in spray washers rinse stage. Do not heat above 135°F (57°C).	1-2 months (depending on dilution)	3% -10%	none		
Product	Features	Main Uses	Typical Storage Time	Concentration Range %	Flash Point*	V.O.C, LBS./GALS.	Humidity Cabinet Test ASTM D1748
OIL/SOLVENT CORROSION INHIBITORS							
RPO 6BF	Excellent, barium-free, nonstaining, water-displacing RP with indoor and in-transit protection.	Dip, spray, brush, flow coat, or wipe application on ferrous/mixed metals.	6-10 months	100%	181°F (83°C)	4.09	650 hrs. no rust



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For prices or additional information, contact your Master Fluid Solutions Distributor.



www.masterfluidsolutions.com/na/en-us/



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Innovative products to energize your production

TRIM® – Metalworking Fluids

WEDOLIT™ – Tubes, Pipes, Forming and CP Fluids

Master STAGES™ – Cleaning and CP Fluids

XYBEX® – Fluid Management