

Whamex™

Machine Tool Sump and System Cleaner

Master STAGES™ Whamex™ is a safe, fast-acting concentrated formula that will save machine cleaning downtime while removing the oily residues, scums, and insoluble soap deposits that reduce coolant life. Whamex is made for cleaning out machine tool sumps and larger systems, coolant supply lines, and coolant recycling equipment. Whamex is compatible with most waste treatment (including ultrafiltration) and will not degrade TRIM® metalworking fluids when used as directed.

Maintenance



An Illinois customer had a 10,000 gallon central system used for centerless grinding of piston pins.

Whamex in action:

An Illinois customer had a 10,000 gallon central system used for centerless grinding of piston pins. The finishes were critical, but they were experiencing problems with a soluble oil coolant: finish quality was decreasing as tramp oil was increasing. Rather than dumping the system, 1% Whamex was added with amazing results. Part finish improved from 6 to 2-4 microns; tramp oils split out. After seeing dramatically longer sump life, the production manager stated "instead of dumping the system, it is still running parts with excellent finishes and no coolant problems."



Choose Whamex:

- A very specialized formula that draws many years of hands-on experience in machine clean outs
- Quickly breaks down and lifts off insoluble scum deposits hidden in lines and difficult to reach areas — getting rid of these residues is one of the best ways to extend coolant life in your system
- Very hard water tolerant allowing it to be effective in raw water or used coolant
- Environmental approvals are simplified because Whamex contains no nitrites, phosphates, barium, phenols, or butyl cellulose; this formula has very low V.O.C. content and no SARA 313 reportable ingredients
- When used as directed below, this product is compatible with TRIM brand semisynthetic and soluble oil coolants, as well as most competitive coolants. Will remove heavy soils from machines without affecting paints, coatings, seals, hoses, or skirting, and it won't leave a slippery residue
- Short-term corrosion inhibitors prevent flash rusting of machine surfaces and ways

Whamex especially for:

Applications — floor cleaning, immersion tanks, machine cleaning inside, and machine cleaning outside

Soils — coolant residues, heavy oils, and light oils

Metals — cast iron and steels

Industries — aerospace, automotive, machine tool manufacturers, and medical

Whamex is free of — 2-butoxyethanol (Butyl), barium, nitrites, NPEs, phenols, phosphate, and SARA 313 listed ingredients

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Application Guidelines

- Use a high-flow sump cleaner such as a Yellow Bellied Sump Sucker™, to quickly remove spent fluids and residues.
- Add up to 0.1% Master STAGES™ CLEAN DF1 to control foam in high-pressure, high-flow systems.
- All used coolant or rinse water must be recycled or disposed of in accordance with local, state, or provincial, and national environmental regulations.
- To learn about the "Preferred Method for Cleaning Machine Tools and Central Systems"; and the "Quick Cleaning Method For Noncritical Interim Cleaning" check out pages 10-12 of the [The Handy Pocket Guide to a Clean Shop](#).
- For additional product application information, including performance optimization, please contact your Master Fluid Solutions' Authorized Distributor at <https://www.2trim.us/distributors.php>, your District Sales Manager, or call our Tech Line at 1-800-537-3365.

Physical Properties Typical Data

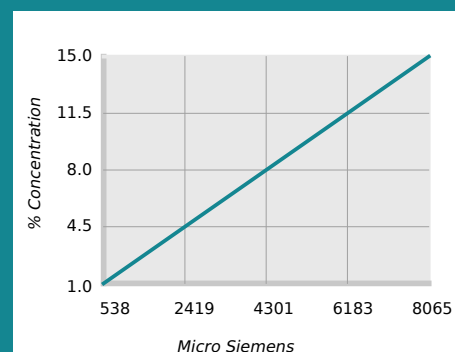
Color (Concentrate)	Yellow
Color (Working Solution)	Colorless
Odor (Concentrate)	Mild
Form (Concentrate)	Liquid
Flash Point (Concentrate) (ASTM D93-08)	> 216°F
pH (Concentrate as Range)	10.5 - 11.0
pH (Typical Operating as Range)	10.0 - 10.6
Coolant Refractometer Factor	2.5
V.O.C. Content (EPA Method 24)	228 lbs/gal
Cleaner Conductivity Factor	0.00186
Titration Factor (CL-1 Titration Kit)	0.43
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	1.0% - 15.0%
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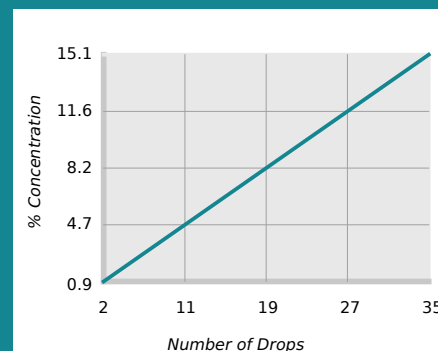


Concentration by Conductivity



% Concentration = Conductivity in Micro Siemens x
Factor
Conductivity Factor = 0.00186

Concentration by Titration



% Concentration = No. of Drops x Titration Factor
Titration Factor = 0.43

Health and Safety

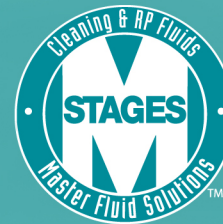
See the most recent SDS at

<https://2trim.us/s/?i=1146-0-en-US-US>



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1-gallon jug
SKU: WHAMEX/1G
UPC-12: 641238027294



5-gallon pail
SKU: WHAMEX/5G
UPC-12: 641238027317



54-gallon drum
SKU: WHAMEX/54G
UPC-12: 641238027324



270-gallon tote
SKU: WHAMEX/NR270P
UPC-12: 641238033165

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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:

https://2trim.us/di/?plr=WHAMEX*en-us*na



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