



Troyshield™ FF5

Machine Cleaner (free of Formaldehyde-adducts)

Description Troyshield™ FF5 is a unique combination of highly active cleaning agents and an effective bactericide and fungicide. It was specifically formulated for cleanings of fouled metalworking fluid systems and works equally well in central systems or individual machine tanks.

Application/Use Proper use of the right machine cleaner is vital to successful clean-up program. If spoiled coolant is simply dumped and the system not cleaned, the new coolant will promptly become infected as well and spoilage may start within a few hours.

Use of Troyshield™ FF5 can remove foul smelling slime and deposits and help provide a cleaner system prior to refilling with new fluid.

Easy to use. Troyshield™ FF5 can be added to the old fluid during the last shift before draining. Surfaces and metal parts which do not come into contact with the circulating coolant / cleaner can be cleaned and with Troyshield™ FF5.

Directions for use Troyshield™ FF5 Machine Cleaner should be added prior to every change of coolant, with addition being made at the start of the last shift before the coolant is to be discharged.

The concentration to be used is dependent on the degree of dirt in the system and the period the fluid has been used.

1% Troyshield™ FF5 for mild contamination
 2% Troyshield™ FF5 for moderate contamination
 3% Troyshield™ FF5 for severe contamination

1. Add 1-3% Troyshield™ FF5 to the circulation coolant at the start of the last shift, allowing the coolant / cleaner to circulate for 6-8 hours before draining the coolant.
2. Surfaces and metal parts which do not come into contact with the coolant during the period of circulation should be cleaned with a 1% solution of Troyshield™ FF5.
3. Flush with clean water.
4. Refill system with preserved coolant. For preservation we recommend Troyshield™ and Mergal Biocides.

Suggested use levels are based on laboratory and field evaluations and are typical for the applications indicated. The actual level required for your system is formulation specific. The selection of the individual components of the formulation, the kind of metal machined, and the environment in which the fluid will be exposed all have an influence on the amount of protection needed. Suggested use levels are reported as percentage of the diluted fluid.

Physical Properties

These properties are typical properties of the product. They are not product specifications.

Appearance:	Clear light red to brown liquid
Odor	Typical
Specific Gravity, 20 °C [kg/m ³]:	1020 – 1050
pH (2%), 20°C:	10.0 -11.0
Solubility:	Miscible with water in any ratio
Flash point, °C (DIN 51758)	> 100

TROY's Microbiological Laboratory is available to provide additional assistance in determining the proper level of protection needed for your system.



**Labeling,
Transport,
Handling, Health
and Safety**

All our products are classified and labeled according to European and national legislation.

For the most updated and complete information on classification, labeling and transport, as well as handling, health and safety please refer to the most current Safety Data Sheet.

Storage

Keep product in closed original packaging. Use only with adequate ventilation. Store away from incompatible substances in a cool, dry, ventilated area.

Keep from freezing. Avoid storage at temperatures exceeding 40°C. Proper eye protection and gloves should be worn. For further information see Safety Data Sheet.

Observe all Federal, State, and Local regulations when storing or disposing of this substance.

Shelf Life: 12 Month after date of manufacture

Packaging

Please refer to your local sales office for detailed information on the available package size.

For further information
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www.troycorp.com
or call...

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Use biocides safely. Always read the label and product information before use.

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