

Thermaflo® Flushing Fluid

An industrial-grade aromatic solvent engineered for the rapid cleaning and restoration of fouled heat transfer systems, TFF dissolves baked-on carbon, tars, and sludge with performance comparable to toluene, but without the flammability and safety hazards. Superior wetting action penetrates beneath hardened deposits that traditional cleaners are slower to reach, restoring system performance quickly.

APPLICATION

Thermaflo® Flushing Fluid is designed for cleaning and decontaminating heat transfer systems. Typical applications include:

- Heat transfer system decontamination
- Carbon deposit removal
- Sludge and tar dissolution
- Pre-fluid change system cleaning
- Fouled system restoration
- Oxidation residue removal

BENEFITS

Powerful Solvent Action

Aromatic composition delivers tar-dissolving performance equivalent to flammable solvents while maintaining a safe flash point above 250°F (121°C).

Superior Carbon Removal

Exceptional metal-wetting properties allow the fluid to penetrate beneath hard carbon deposits, lifting baked-on residues from heat transfer surfaces for a thorough, uniform clean.

Fast and Simple Procedure

Drain, fill, heat to 250°F (120°C), circulate until system condition indicates completion (typically 8–24+ hours depending on fouling severity), drain, and refill — no complex chemical cleaning protocols or drying procedures required.

Full System Compatibility

Miscible with most organic heat transfer fluids; any residual flushing fluid vents safely during system startup, eliminating concerns about contamination.

Safer Alternative to Toluene and Chlorinated Solvents

Delivers high solvency without flammability hazards, reducing safety risk during system cleaning.

Reduces System Downtime

Fast, straightforward procedure minimizes the time systems are offline for cleaning, allowing facilities to return equipment to service quickly without extended maintenance windows or complex cleaning protocols.

Closed-Loop Reuse Program

Unlike disposable cleaning solvents, used TFF can be returned to CHEM Group for distillation and reuse, eliminating customer waste disposal requirements and reducing environmental liability.

(800) 489-2306
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- High solvency without flammability hazards
- Safer alternative to toluene and chlorinated solvents
- No system drying required
- Compatible with organic heat transfer fluids
- Removes baked-on carbon
- Dissolves tars and sludge
- Reduces system downtime
- Cost-effective cleaning solution

PHYSICAL PROPERTIES

Property	Method	Specification
Appearance		Amber
Composition		Aromatic Hydrocarbons
Moisture Content (ppm)	Karl Fischer	<500
ASH	CG method	<0.1wt%
Total suspended solids by filtration	CG method	<0.2w%
Flash Point, COC	ASTM D92	>250°F (121°C)
Kinematic Viscosity @40C, cSt	ASTM D445	6-12
Density @20°C, lbs./gal	Calculation	7.93 – 8.76
Specific Gravity @20°C	ASTM D1298	1.010 – 1.040
Pour Point	ASTM D97-17b	<-76°F (-60°C)
Total Acid Number, mg KOH/g	ASTM D974	0.1
Volatility	CG method	>80%@300f 4hr

To help you determine the correct cleanout procedure, CHEM Group can provide a complimentary fluid analysis to assess the extent of degradation or contamination in your system. These results can then be used to determine the parameters required to maximize the effectiveness of Thermaflo® Flushing Fluid as a cleaning solution for your system.

To request a free fluid sample analysis, visit the “Complimentary Fluid Testing” page at chemgroupus.com/testing-analysis, or contact CHEM Group directly to request a sample kit.