

MultiTherm PSC Plus®

**Designed for Cleaning Large Systems
More Economically with a High Flash Point**



SYSTEM CLEANING FLUID

Benefits of MultiTherm PSC Plus®:

- More Economical for Large Systems
- Higher Flash Point than other typical System Cleaners
- Non-Corrosive, Non-Toxic and Non-Hazardous material
- Designed to breakdown sludge and hold it in suspension for easy removal or filtration. System can be operated up to 550°F/288°C

Purpose:

MultiTherm PSC Plus® Cleaning Fluid is designed for use in general maintenance of larger heat transfer fluid systems. **MultiTherm PSC Plus®** can be used with the Heat Transfer Fluid that is currently in the system or new flushing fluid.

It is formulated to breakdown the sludge deposits and resin residue as a result of its detergency. **MultiTherm PSC Plus®** Cleaning Fluid is formulated to be compatible with all **MultiTherm Heat Transfer Fluids** as well as most others, so that small residual amounts left in the system will not cause a problem.

Application Without Filter:

1. To prevent plugging, remove all Y-strainer elements.

2. Remove and replace 3-4% of heat transfer fluid in the system with **MultiTherm PSC Plus®**.

3. To clean the Expansion Tank, open warm-up valves to allow **MultiTherm PSC Plus®** to circulate through the tank as well.

Note: It is recommended that you have a Nitrogen blanket on the expansion tank.

4. System can be operated between 110°F to 550°F (43°C to 288°C).

5. Fluid with **MultiTherm PSC Plus®** should be circulated for a minimum of 24 hours or up to 48 hours depending on level of sludge build-up in the system.

6. Drain system of all the fluid as quick as possible at about 150°F (65°C). All sludge and particulate in the system will stay in suspension at this temperature.

7. MultiTherm recommends flushing the system with **MultiTherm FF-1®** flushing fluid. This is to remove all the residual detergent, sludge and particulate left behind in the system after draining. **Note:** If there is greater than 2% of residual cleaning fluid left behind, there will be additional carbon particulates dropping out of the fluid due to active detergent molecules.

8. Completely refill with **MultiTherm® Heat Transfer Fluid** and restart by using the recommended start-up procedure.

9. Finally, we recommend that you walk the entire system and check for leaks that may have been a result of cleaning.

Application With Filter:

1. To prevent plugging, remove all Y-strainer elements.

2. Install a 100-micron cartridge in filter, or the largest one you have.

3. Remove and replace 3-4% of heat transfer fluid in the system with **MultiTherm PSC Plus®**.

4. To clean Expansion Tank, open warm-up valves to allow **MultiTherm PSC Plus®** to circulate through the tank as well.

Note: It is recommended that you have a Nitrogen blanket on the expansion tank.

5. Change Filter Cartridges as required removing sludge and contaminates. As particles decrease, change cartridges from 100-micron to 50-micron down to 10-micron.

6. System should be operated between 110°F to 550°F (43°C to 288°C).

7. Follow same steps 5 through 9 of application without filter.

PHYSICAL CHARACTERISTICS	MULTITHERM PSC PLUS®	PHYSICAL CHARACTERISTICS	MULTITHERM PSC PLUS®
Chemical Type	Hydrocarbon Base	Pour Point, ASTM D97	50°F / 10°C
Appearance	Dark Brown Liquid	Gravity, API°	0.97
Odor	Petroleum Odor	Flash Point, coc, ASTM 92	> 392°F / 200°C
Weight, lb/gal	7.17	Viscosity @ 40°C, cSt	100
Maximum Operating Temperature	550°F / 288°C	Vapor Pressure, @ 20°C	< .01 PSI / 1mm Hg

*Typical properties, not specifications.

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