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The Technology Behind Duratherm

Just about any fluid will transfer heat with some degree of efficiency; it's how long it lasts and how clean it keeps your system while its running that makes the difference.

We start with various highly stable, naturally resilient base stocks like highly refined, severely hydro treated pure paraffinic oils but where a lot of fluids stop there we continue with a proprietary blend of additives specific to heat transfer applications. These aren't just off the shelf generic additives; our package is finely tuned and formulated for heat transfer fluids.

While some might say the use of additives are not necessary read below and decide for yourself if your system needs the extra protection of Duratherm.

Anti Oxidants

Critical to any application that is not sealed from the atmosphere. If you don't have a nitrogen blanket on your expansion tank or reservoir it is crucial that your fluid contain an anti-oxidant. Oxidation leads to sludge formation which left unchecked could cause blockages and lead to complete system failure. Our fluids contain a proprietary dual stage anti-oxidant. See for yourself the difference this additive makes through our Competitive Comparison Report.

Corrosion Inhibitors

Most systems at some point in time will have water contamination. Whether from leaky heat exchangers or drawn from humid air, moisture venting through the expansion tank or oil reservoir can lead to corrosion inside the tank. Our corrosion inhibitors virtually eliminate the chance for corrosion.

Defoaming Agents

During start up air can become trapped in a system. As you pump this creates air bubbles (foaming) which can lead to pump cavitations possibly damaging pumps and other system components. Our proprietary additive package contains defoaming agents to help keep air from foaming in the oil.

Seal and Gasket Extender

High temperature applications are hard on seal and gasket materials, our seal and gasket extenders help fight heat damage that can cause premature seal failure. You pay a lot for high temperature seals; don't you want them to last as long as possible?

Suspension Agents

Some fluids after years of use tend to develop carbon and other particulate matter, even new systems have weld slag, metal shavings etc. that can become trapped in instrument lines or cause problems in other areas. Our suspension agents help to ensure particulate is held in suspension and easily filtered or caught in strainers.

Metal Deactivators

Some metals used in the construction of heat transfer systems can actually react with the oil causing premature breakdown. Our metal deactivators ensure compatibility with any system even those with copper lines, heat exchangers or fittings.