



# 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 it's running that makes the difference.

At Duratherm, we start with various highly stable, naturally resilient, base fluids. But while most of our competitors stop there, we continue with a proprietary blend of additives. These aren't just off-the-shelf generic additives; our package is finely tuned and formulated specifically for high temperature thermal fluid use and the most demanding of applications.

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

## **Anti Oxidants**

Anti oxidants are 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 to avoid premature failure. Oxidation leads to sludge formation which left unchecked, could cause blockages and lead to complete system failure resulting in a loss of production and costly repairs. Duratherm 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. Duratherm's unique blend of 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 cavitation possibly damaging pumps and other system components. Duratherm's 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. Duratherm's advanced 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. Duratherm's 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. Duratherm's metal deactivators ensure compatibility with any system – even those with copper lines, heat exchangers or fittings.