Technical Data Sheet

StaTherm™ SRT

StaTherm™ SRT is a chemically engineered Industrial Heat Transfer Fluid using a specially formulated *High-Heat inhibitor package* for corrosion protection in a Triethylene glycol base.

Recommended Temperature Range:
-35°C to 204°C

Corrosion Protection

The chemistry employed will effectively protect your industrial equipment whether constructed of single or mixed alloys. The industrial corrosion control inhibitors included have been specially formulated to extend the service life of the coolant. Therefore, you will receive a higher level of reserve alkalinity, superior performance, and less maintenance requirements through re-inhibiting.

Complete corrosion protection is metals including carbon steel, brass, copper, stainless steel, cast iron, and many other alloys by creating a passive layer on the surface that contacts the TEG and prevents corrosion from forming.

These attributes improve your bottom-line cost.

The high flash point of the inorganic inhibitors used in ***StaTherm™ SRT*** makes them well suited for use in systems where a higher temperature tolerance is required. Traditional Ethylene Glycol HTF inhibitors have much lower flash points, typically 77-135°C. ***StaTherm™ SRT*** is ideal at higher temperatures; and offers enhanced, sustainable protection for heat transfer applications where the normal operating temperatures exceed the limits of other glycols.

Thermal Degradation

Glycol degradation takes place when the glycol is exposed to high temperatures, in the presence of oxygen or oxidizing agents. This degradation results in the formation of organic acids, specifically, glycolic, formic and acetic acids.

As degradation progresses and the pH of the fluid decreases, the system ultimately becomes acidic and accelerates the corrosion of many metals.

Specifications

All ***StaTherm™*** inhibitors have successfully completed the 336-hour ASTM D-1384 corrosion test.

StaTherm™ SRT (Triethylene Glycol Base) are formulated to meet ASTM D 6210-06 and ASTM D 4985-05 Standard Specification for Fully-Formulated Glycol Base Engine Coolant for Heavy-Duty Engines and other industrial Heat Transfer Applications.

StaTherm™ SRT 60/40

Typical Heat Transfer Fluid Properties	
Glycol Conc. % Volume	60
Freeze Protection	-36°F (-37.8°C)
pH	8.5 to 9.5
Reserve Alkalinity (ability to withstand effects of degradation and turn acidic)	>12.0 mL
Specific Gravity, KG/L	1.092
Vapor Pressure @180C	120.4 psia
Maximum Recommended Temperature, °C	140°C (15psig)
Spec Heat, J/g°C @180C	3.766
Viscosity, cP@180C	1.14
Color	Colourless to Red

Fluid Maintenance

The ***CFR Quality Assurance Program*** provides glycol sample analysis and recommendations at no charge to ensure optimal performance.

Glycol sample kits, with bottles and labels are provided to our customers. Upon arrival, our Heat Transfer Laboratory completes a sequence of tests to assess the fluid's present condition. A CFR glycol technical specialist will review each analysis report, in-person, and make the appropriate recommendations for maintaining the integrity of the fluid.

Product Availability

StaTherm™ SRT can be purchased in its concentrated form or pre-blended with de-ionized water to meet your specification for boiling, freeze and/or burst protection.

CFR Chemicals distributes its products from various locations across Alberta, Saskatchewan & BC. Products can be shipped anywhere where in the world. To inquire about shipping options, please contact your local CFR area representative.

Or visit us on the web: www.cfrchemicals.com