

Over 25 years of experience developing fluids for the heat transfer industry and working with equipment manufacturers has given us a unique understanding of heat transfer fluids and what it takes to make a fluid that performs optimally in each type of application. Generic and multi use fluids just can't be all things to all applications.

Applications

Duratherm XLT is engineered for long term operation in heat transfer applications requiring precise temperature control ranging from -120°F up to 350°F (-84°C to 176°C).

Ideal for cryogenic applications Duratherm XLT's economic cost and wide operating temperature also makes it well suited for heating and cooling applications found in the food processing, pharmaceutical and chemical industries etc.

Longevity

Duratherm XLT utilizes our exclusive additive system for long term, trouble free operation at any temperature, high or low.

Trouble Free Operation

Duratherm XLT does not require monitoring of concentration or additive levels.

Environmental

Duratherm XLT is plant and user friendly. Low odors, high flash point and no SARA reportable substances makes XLT the wise choice for worker health and safety.

Disposal

After its extensive service life Duratherm XLT can be disposed of through local waste oil recycling programs. Check with your local regulations.

Synopsis

Duratherm XLT is an extreme low temperature heat transfer fluid offering low toxicity with a high flash point for safe and easy use.

| Properties | Test Method | Duratherm XLT |
|--|-------------|----------------|
| Appearance | | Amber/Yellow |
| Maximum use Temperature | | 176°C (350°F) |
| Minimum Use Temperature | | -84°C (-120°F) |
| Density at -30°C, g/ml (lb/ft ³) | ASTM D1298 | 0.863 (53.84) |
| at 30°C, g/ml (lb/ft ³) | | 0.833 (51.89) |
| at 120°C, g/ml (lb/ft ³) | | 0.662 (41.3) |
| Flash Point, °C (°F) | ASTM D92 | 98.8°C (210°F) |
| Fire Point, °C (°F) | ASTM D92 | 240°C (240°F) |
| Carbon Residue, % Mass | ASTM D189A | 0.005 |
| Sulphur Content, weight % | X-RAY | <.001 |
| Cu Strip Corrosion | ASTM D130 | 1a |
| Viscosity, cSt at 40° C (104° F) | ASTM D445 | 32.1 |
| cSt at 100° C (212° F) | | 05.2 |
| cSt at 316° C (600° F) | | 0.71 |
| Pour Point, °C (°F) (estimated) | ASTM D97 | -95°C (-140°F) |
| Thermal Conductivity, W/m K (BTU/hr F ft) | | |
| at -30°C (-66° F) | | 0.140 (0.081) |
| at 30°C (86°F) | | 0.130 (0.075) |
| at 120°C (248° F) | | 0.127 (0.073) |
| Heat Capacity, kJ/kg K (BTU/lb F) | | |
| at -30°C (-66° F) | | 1.950 (0.466) |
| at 30°C (86°F) | | 2.081 (0.497) |
| at 120°C (248° F) | | 2.428 (0.580) |
| Vapor Pressure, kPa (psi) | ASTM D2879 | |
| at 15°C (60°F) | | 0.00 (0.00) |
| at 38°C (100°F) | | 0.14 (0.02) |
| at 93°C (200°F) | | 8.41 (1.22) |
| at 176°C (350°F) | | 63.85 (9.26) |
| Distillation Range, °C (°F) | ASTM D2887 | |
| 10% | | |
| 90% | | |

The values quoted are typical of normal production. They do not constitute a specification.