



# HEAT TRANSFER FLUIDS

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## XCEL THERM<sup>®</sup> ASP

Superior resistance to heat stress for long life with the economy needed to keep plant operations profitable. Highly efficient, it moves heat at an economic operating cost, too. We developed this fluid for the Asphalt Industry to be consistent with environmental leadership by being non-toxic, aromatic free, more efficient and higher performing. All aspects of XCEL THERM<sup>®</sup> manufacturing and packaging processes are controlled by a stringent ISO 9001 quality program. Backed by a high degree of technical support and service, our heat transfer fluids are at the forefront of the latest thermal fluid technologies.

### TYPICAL PROPERTIES

#### Key Temperatures

|  |       |       |
|--|-------|-------|
| Maximum Bulk Fluid Operating Temperature | 550°F | 288°C |
| Maximum Film Temperature                 | 600°F | 316°C |
| Flash Point (PMCC) (ASTM D93) (typical)  | 379°F | 193°C |
| Flash Point (COC)(ASTM D92) (min)        | 410°F | 210°C |
| Flash Point (COC)(ASTM D92) (typical)    | 428°F | 220°C |
| Autoignition Temperature (min)           | 650°F | 343°C |
| Pour Point (ASTM D97) (max)              | 10°F  | -12°C |

#### Physical Properties

|                                      |                           |                       |
|--------------------------------------|---------------------------|-----------------------|
| Appearance                           | Bright and clear          |                       |
| Odor                                 | Oily                      |                       |
| Composition                          | Severely hydrotreated oil |                       |
| Moisture Content (max)               | < 100 ppm                 |                       |
| Density. at 77°F/25°C                | 7.2 lbs/gal               | 863 kg/m <sup>3</sup> |
| Specific Gravity. at 60°F/15.5°C     | 0.85 – 0.88               |                       |
| Kinematic Viscosity. at 104°F/40°C   | 30.5 cSt                  |                       |
| Kinematic Viscosity. at 212°F/100°C  | 5.5 cSt                   |                       |
| Total Acid Number (max)              | < 0.30 mg KOH/g           |                       |
| Acetone Insolubles (max)             | <25 mg/100 mL             |                       |
| Density. at 104°F/40°C               | 53.4 lbs/ft <sup>3</sup>  | 855 kg/m <sup>3</sup> |
| Density. at 212°F/100°C              | 51.5 lbs/ft <sup>3</sup>  | 825 kg/m <sup>3</sup> |
| Specific Heat. at 104°F/40°C         | 0.465 BTU/(lb-°F)         | 1.95 kJ/(kg-K)        |
| Specific Heat. at 212°F/100°C        | 0.53 BTU/(lb-°F)          | 2.22 kJ/(kg-K)        |
| Thermal Conductivity. at 104°F/40°C  | 0.0869 BTU/ft-hr-°F       | 0.15 W/(m-K)          |
| Thermal Conductivity. at 212°F/100°C | 0.0835 BTU/ft-hr-°F       | 0.14 W/(m-K)          |

\* Data represents typical laboratory samples and are not guaranteed for all samples.