



HEAT TRANSFER FLUIDS

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XCEL THERM[®] HFF – Engineering Properties

Flash point greater than 460°F (238°C) as measured by Cleveland Open Cup method (ASTM D92), petroleum based, non-toxic for use up to 315°C (600°F).

High flash point of greater than 460°F (238°C) as measured by Cleveland Open Cup method (ASTM D92), petroleum based, non-toxic for use up to 315°C (600°F). Recommended for use in wood kilns, paper and packaging, wood panel production, marine transportation, or any application where a higher than usual flashpoint is required.

Key Operating Temperatures

Maximum Bulk Fluid Operating Temperature	315°C (600°F)
Maximum Film Temperature	345°C (650°F)
Flash Point (PMCC)(ASTM D93)(min)	228°C (442°F)
Flash Point (COC)(ASTM D92)(min)	240°C (464°F)
Fire Point (ASTM D92)(min)	262°C (504°F)
Autoignition Temperature (min)	349°C (660°F)
Pumpability, at 300 cSt	0°C (32°F)
Pour Point (ASTM D97)	-24°C (-11.2°F)
Normal Boiling Point	348°C (658°F)

Physical Properties

Appearance	Straw yellow to amber liquid
Odor	Faint petroleum
Composition	Severely hydrotreated oil
Average Molecular Weight	550 g/mol
Density at 25°C (77°F)	863 kg/m ³ (7.20 lbs/gal)
Specific Gravity at 15.6°C (60°F)	0.868
Moisture Content (maximum)	300 ppm
Kinematic Viscosity at 40°C (104°F)	49 mm ² /s (cSt)
Kinematic Viscosity at 100°C (212°F)	7 mm ² /s (cSt)
Coefficient of Thermal Expansion at 200°C (392°F)	0.000798/°C (0.000443/°F)