



HEAT TRANSFER FLUIDS

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XCEL THERM[®] HFF – Typical Properties

High flash point of greater than 410°F (210°C) as measured by Pensky-Martens Closed Cup method (ASTM D93), petroleum based, non-toxic for use up to 600°F (315°C). 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	600°F	315°C
Maximum Film Temperature	650°F	345°C
Flash Point (PMCC)(ASTM D93)(min)	440°F	227°C
Flash Point (COC)(ASTM D92)(min)	460°F	238°C
Fire Point (ASTM D92)(min)	505°F	263°C
Autoignition Temperature (min)	660°F	349°C
Pumpability, at 300 cSt	32°F	0°C
Normal Boiling Point	635°F	353°C
Physical Properties		
Appearance	Straw yellow to amber liquid	
Odor	Faint petroleum	
Composition	Distillates (petroleum), solvent-dewaxed heavy paraffinic	
Average Molecular Weight	550 g/mol	
Density at 77°F/25°C 7.29 lbs/gal 874 kg/m3	7.29 lbs/gal	874 kg/m3
Specific Gravity, at 60°F/15.6°C	0.847	
Moisture Content (maximum)	300 ppm	
Kinematic Viscosity at 104°F/40°C	37 cSt	
Kinematic Viscosity at 212°F/100°C	5.5 cSt	
Coefficient of Thermal Expansion at 392°F/200°C	0.000517/°F	0.000931/°C
Heat of Vaporization at Maximum Use Temperature	77 BTU/lb	
* Data represents typical laboratory samples and are not guaranteed for all samples		