EASTMAN

Technical Data Sheet Therminol® 66 Heat Transfer Fluid

Applications

- htf aluminum foil printing
- htf bakery
- htf detergent
- htf fine chemicals
- htf food/feed/beverage processing
- htf production of bioalcohol
- htf production of biodiesel
- Abs
- Adhesives
- · Biomass orc
- Cement waste heat recovery + orc
- Chemicals & petrochemicals
- Desalination
- Fibers
- Glass waste heat recovery + orc
- Hybrid solar + orc
- · Oil or gas processing
- Oil recycling
- Polyester (pet)
- Polyethylene
- Polymer & plastic
- Polypropylene
- Refining
- Resins
- Silicone
- Solar csp
- Specialty chemicals
- Styrene
- Tall oil

Key Attributes

- Experience
- Fouling Resistant
- Proven Fluid
- True 650° F (345° C) Performance



Product Description

Therminol 66 is the world's most popular high-temperature, liquid-phase heat transfer fluid. Therminol 66 is pumpable at low temperatures, and offers high temperature thermal stability.

Performance Benefits

- **Experience**—Therminol 66 is the most popular high-temperature, liquid-phase heat transfer fluid in the world. No heat transfer fluid material in the world has a higher degree of customer satisfaction than Therminol 66.
- **Proven Fluid**—In a wide variety of applications and thousands of systems around the world, Therminol 66 delivers excellent performance.
- True 650° F (345° C) Performance—Therminol 66 sets the performance standard for high-temperature, liquid-phase fluids. Users can expect many years of reliable, trouble-free operation even when operating continuously at the recommended bulk temperature.
- **Fouling Resistant**—Therminol 66 is specifically engineered to resist solids formation and system fouling, providing more reliable operation and potential cost savings.

Typical Properties

Property	Test Method	Typical Value, Units
General		

	Clear, pale yellow liquid
Appearance Composition	
Recommended Bulk Temperature	
Maximum film temperature	
	359 °C (678 °F)
	11 °C (52 °F)
	-3 °C (27 °F)
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ASTM D92	184 °C (363 °F)
ASTM D93	170 °C (338 °F)
ASTM E659	374 °C (705 °F)
DIN 51794	399 °C (750 °F)
ISO 3016	-32 °C (-25 °F)
lly developed turbulent flow (NRe >	
	72 °C (162 °F)
	53 °C (128 °F)
20 ft/s, 1-in. tube (6.096 m/s, 2.54-cm tube)	
Minimum liquid temperatures for transitional region flow, (NRe > 2000)	
10 ft/s, 1-in. tube (3.048 m/s, 2.54-cm tube)	
2.54-cm tube) 20 ft/s, 1-in. tube (6.096 m/s,	
	26 °C (78 °F)
	0.000819 /°C (0.000455 /°F)
ASTM D 445	3.80 cSt, mm ² /s
ASTM D 445	29.6 cSt, mm ² /s
ASTM D 4052	1012 kg/m ³ (8.44 lb/gal)
ASTM D 4052	1005 kg/m ³ (8.4 lb/gal)
ASTM D 664	<0.2 mg KOH/g
	252
	569 °C (1056 °F)
	24.3 bar (353 psia)
	317 kg/m ³ (19.8 lb/ft ³)
ASTM D 130	<<1a
	150 ppm
	* *
ASTM D-924	2.61
	ASTM D93 ASTM E659 DIN 51794 ISO 3016 Illy developed turbulent flow (NRe > ansitional region flow, (NRe > 2000) ASTM D 445 ASTM D 445 ASTM D 4052 ASTM D 4052 ASTM D 664 ASTM D 664 ASTM D 130 ASTM E-203

Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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