



CITGO HYTHERM® OIL 46

Date 07/15

DESCRIPTION: CITGO Hytherm Oil 46 is a premium quality heat transfer oil formulated with high viscosity index paraffinic base stocks and a special high temperature detergent/dispersant additive package.

QUALITIES: CITGO Hytherm Oil 46 provides high specific heat and good thermal conductivity at all temperatures for highly efficient heat transfer. CITGO Hytherm Oil 46 contains rust and oxidation inhibitors and a special additive package to help maintain system cleanliness and operational performance, reducing downtime and maintenance costs.

APPLICATIONS: CITGO Hytherm Oil 46 meets the exacting requirements of both open and closed heat transfer systems, at temperatures up to 600°F.

CITGO HYTHERM® OIL 46 PHYSICAL DATA

Temp., °F	Specific Gravity	Specific Heat BTU/lb/°F	Thermal Conductivity BTU/hr/ft ² /°F	Viscosity cSt
60	0.871	0.442	0.0790	175
100	0.857	0.463	0.0770	51
200	0.824	0.517	0.0738	8.0
300	0.792	0.570	0.0715	2.9
400	0.761	0.624	0.0697	1.6
500	0.731	0.678	0.0675	1.0
600	0.697	0.732	0.0647	0.8

TYPICAL PROPERTIES:

CITGO HYTHERM® OIL 46

ISO VIS Grade (SAE Grade)	46
Material Code	637130001
Gravity, ASTM D 4052, °API	31.5
Density, lb/gal at 60°F	7.25
Flash Point, ASTM D 92, °F	453
Viscosity, ASTM D 445, cSt, at 40°C	48.5
cSt, at 100°F	7.0
Viscosity Index, ASTM D 2270	100
Pour Point, ASTM D 97, °F	16
Color, ASTM D 1500	2.0
Acid No., ASTM D 974	<0.01
Volume Factor, % per °F	0.033
Distillation, °F, ASTM D 2887, IBP, °F	650
5%	734
10%	771
50%	858
95%	944

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