

ExxonMobil 797 Mobil DTE 790 Series

Category : Fluid , Lubricant

Material Notes:

Mobil DTE 790 Series lubricants are premium performance turbine oils that are engineered to meet the requirements of the most severe steam turbine designs and operation, with maximum oil charge life. Mobil DTE 790 Series oils are based on proprietary, very high quality, hydrotreated base stocks and selected additives which provide outstanding resistance to oxidation and chemical degradation over time, which is exemplified by exceptional color stability, a key factor in assessing oil stability in some regions of the world. Mobil DTE 790 lubricants also exhibit excellent water separability, resistance to emulsion formation and anti-foaming characteristics which provides efficient operation, and good air release properties which is critical for hydraulic control mechanisms. The exceptional oxidation stability performance of Mobil DTE 790 oils has resulted in outstanding performance in even the most severe, and largest capacity steam turbine applications. These products have an outstanding reputation for equipment reliability and avoiding unscheduled downtime. This reputation is exemplified by the very high percent of nuclear turbine operators who choose Mobil DTE 790 lubricants. Their performance in service is also recognized to provide very long charge life, in excess of conventional turbine oils, and high resistance to deposit formation and filter plugging. While primarily engineered for steam turbine service, Mobil DTE 790 Series oils also find application in non-geared gas turbine service. The performance features of Mobil DTE 790 Series oils translate into excellent equipment protection, reliable operation, with reduced downtime and extended oil charge life. Mobil DTE 790 Series oils, in the appropriate grade, meet or exceed the requirements of major steam and gas turbine builders. Mobil DTE 790 Series lubricants are premium performance turbine oils engineered to meet the requirements of: circulation systems of direct-connected steam turbine and gas turbines; ring-oiled bearings of geared and direct-connected turbines; hydraulic control systems of turbines. Specific applications include: Electric power generation by utilities, including nuclear plants; Electric power generation by industrial users, such as paper mills

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http://www.lookpolymers.com/polymer_ExxonMobil-797-Mobil-DTE-790-Series.php

Physical Properties	Metric	English	Comments
Density	0.850 g/cc @Temperature 15.0 °C	0.0307 lb/in ³ @Temperature 59.0 °F	ASTM D1298
Viscosity Measurement	110	110	Index; ASTM D2270
Kinematic Viscosity at 40°C (104°F)	30.1 cSt	30.1 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	5.4 cSt	5.4 cSt	ASTM D445
Oxidative Stability	6500 hour	6500 hour	Turbine Oil Stability Test (TOST); ASTM D943

Thermal Properties	Metric	English	Comments
Pour Point	-30.0 °C	-22.0 °F	ASTM D97
Flash Point	221 °C	430 °F	ASTM D92

Descriptive Properties	Value	Comments
Air Release, ASTM D3427, minutes	2	@ 50°C
Copper Strip Corrosion	1A	3 hrs @ 100°C
Demulsibility Time (min)	20	to 3 mL emulsion @ 54°C
Foam Sequence I, ASTM D972	20/0	
Rust Prevention, Distilled Water	pass	ASTM D665A
Rust Prevention, Synthetic Sea Water	pass	ASTM D665B

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China