

ExxonMobil 630 Mobilgear 600 Series

Category : Fluid , Lubricant

Material Notes:

The Mobilgear 600 Series are extra high performance gear oils having outstanding extreme pressure characteristics and load-carrying properties, intended for use in all types of enclosed gear drives with circulation or splash lubrication systems. They are formulated from highly refined base stocks and a special additive system that provides an extremely high level of resistance to oxidation and chemical degradation. They have friction-modifying characteristics that reduce power consumption and lower bulk oil temperatures. The Mobilgear 600 Series oils protect against corrosion and rusting, including seawater. They have excellent water separating properties and they are strongly resistant to foaming in service. Mobilgear 600 Series oils are recommended for industrial spur, helical and bevel enclosed gears with circulation or splash lubrication, operating at bulk oil temperatures up to 100°C. For steel-on-steel applications, Mobilgear 600 Series products are recommended, whereas for bronze-on-steel worm gear applications, Mobil Glygoyle Series or Mobil SHC 600 Series products are recommended. They are particularly suitable for gear sets working under heavy or shock loads. Minimum bulk oil temperatures are governed by the pour point of the oil. Suitable heating may be necessary for the heavier grades at ambient temperatures. Mobilgear 600 oils also find broad application in marine gearing applications. Non gear applications include plain and rolling contact bearings - especially highly loaded and slow speed. Mobilgear 600 Series gear oils are used in a very wide variety of applications in virtually all industrial sectors as well as in marine units. They are the product of choice for many users, worldwide, based on their outstanding performance, equipment protection and application versatility. Mobilgear 600 lubricants are used in a wide range of industrial and marine applications, especially spur, helical, bevel and worm gearing. Specific applications include: Industrial gearing for conveyers, agitators, dryers, extruders, fans, mixers, presses, pulpers, pumps (including oil well pumps), screens, extruders and other heavy duty applications; Marine gearing including main propulsion, centrifuges, deck machinery such as winches, windlasses, cranes, turning gears, pumps, elevators and rudder carriers; Non-gear applications include shaft couplings, screws and heavily loaded plain and rolling contact bearings operating at slow speeds

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Physical Properties	Metric	English	Comments
Density	0.890 g/cc @Temperature 15.6 °C	0.0322 lb/in ³ @Temperature 60.1 °F	ASTM D4052
Viscosity Measurement	98	98	Index; ASTM D2270
Kinematic Viscosity at 40°C (104°F)	220 cSt	220 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	19.5 cSt	19.5 cSt	ASTM D445

Mechanical Properties	Metric	English	Comments
Four Ball Extreme Pressure, Load Wear Index	48	48	ASTM D2783
Four Ball Extreme Pressure, Weld Load	250 kg	551 lb (mass)	ASTM D2783
Timken Test	29500 g	65.0 lb	

Thermal Properties	Metric	English	Comments
Pour Point	-24.0 °C	-11.2 °F	ASTM D97
Flash Point	255 °C	491 °F	ASTM D92

Descriptive Properties	Value	Comments
Copper Strip Corrosion	1B	3 hrs @ 100°C
Demulsibility Time (min)	30	to 3 mL emulsion @ 54°C
Foam Sequence I, ASTM D1031	0/0	
Foam Sequence II, ASTM D893	0/0	
FZG Scuffing, DIN 5182, A/8.3/90, Fail Stage	12+	
Rust Prevention, Synthetic Sea Water	pass	ASTM D665B

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