

## ExxonMobil 636 Mobil SHC 600 Series

Category : Fluid , Lubricant

### Material Notes:

Mobil SHC 600 Series lubricants are supreme performance gear and bearing oils designed to provide outstanding service in terms of equipment protection, oil life and problem-free operation. They are formulated from synthesised, wax-free hydrocarbon base fluids. The combination of a naturally high viscosity index and a unique, proprietary, additive system enables these products to provide outstanding performance in extreme service applications at high and low temperatures, well beyond the capabilities of mineral oils. These products are resistant to mechanical shear, even in heavily loaded gear and high shear bearing applications, so that there is virtually no loss of viscosity. The Mobil SHC 600 Series products have low traction coefficients, which derive from the molecular structure of the base stocks used. This results in low fluid friction in the load zone of non-conforming surfaces such as gears and rolling contact bearings. Low fluid friction produces lower operating temperatures and improved gear efficiency, which translates into reduced power consumption. It also results in extended parts life and allows for more economical equipment design. The base oils used in the Mobil SHC 600 Series have outstanding response to antioxidant additives resulting in superior resistance to oxidation and sludging, especially at high temperatures. The additive combination used in these oils also provides exceptional resistance to rusting and corrosion, very good antiwear, demulsibility, foam control and air release properties, as well as multimetal compatibility. The Mobil SHC 600 Series oils are also compatible with the same seal and other construction materials used in equipment normally lubricated with mineral oils. While initially recognised as a high temperature problem solver, these products are now used in many industrial applications because of the range of benefits they offer. While Mobil SHC 600 Series are compatible with mineral oil based products, admixture may detract from their performance. Consequently it is recommended that before changing a system to one of the Mobil SHC 600 Series, it should be thoroughly cleaned out and flushed to achieve the maximum performance benefits. The Mobil SHC 600 Series oils are compatible with the following seal materials: fluorocarbon, polyacrylate, polyurethane ether, some silicone, ethylene/acrylic, chlorinated polyethylene, polysulfide, and some nitrile rubbers. There is the potential for substantial variations in the elastomers being used today. For best results, consult your equipment supplier, seal manufacturer, or your local Mobil representative to verify compatibility. Mobil SHC 600 Series lubricants are recommended for use in a wide variety of gear and bearing applications where high or low temperatures are encountered or where operating temperatures or bulk oil temperatures are such that conventional lubricants give unsatisfactory life, or where improved efficiency is needed. They are particularly effective in applications where the maintenance costs of component replacement, system cleaning and lubricant changes are high. Specific applications include: Filled for life gearboxes, especially high ratio/ low-efficiency worm gears; Remotely located gearboxes, where oil change-out is difficult; Low temperature applications, such as ski lifts where seasonal oil changes can be avoided; Mixer roll bearings and roll neck bearings where high temperatures are encountered; Plastic calendars; Severe centrifuge applications, including marine centrifuges; Railroad A/C Traction Drives; Mobil SHC 625\*, 627, 629 and 630 are suitable for Oil Flooded Rotary Screw Compressors compressing natural gas, field gas gathering, CO2 and other process gasses used in the natural gas industry.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-636-Mobil-SHC-600-Series.php](http://www.lookpolymers.com/polymer_ExxonMobil-636-Mobil-SHC-600-Series.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.870 g/cc	0.870 g/cc	15°C; ASTM D4052
Viscosity Measurement	165	165	Index; ASTM D2270
Kinematic Viscosity at 40°C (104°F)	664 cSt	664 cSt	ASTM D445

Physical Properties	Metric	English	Comments
Kinematic Viscosity at 100°C (212°F)	42.31 cSt	42.31 cSt	ASTM D445
Oxidative Stability	1750 hour	1750 hour	Rotating Bomb Oxidation Test (RBOT); ASTM D2272
	>= 10000 hour	>= 10000 hour	Turbine Oil Stability Test (TOST); ASTM D943

Thermal Properties	Metric	English	Comments
Pour Point	-42.0 °C	-43.6 °F	ASTM D97
Flash Point	236 °C	457 °F	ASTM D92

Descriptive Properties	Value	Comments
Color	orange	
Copper Strip Corrosion, ASTM D130	1B	24 hrs @ 121°C
Demulsibility Time (min)	30	to 3 mL emulsion @ 82°C
Foam Sequence I, ASTM D944	0/0	
Foam Sequence II, ASTM D893	20/0	
Foam Sequence III, ASTM D893	0/0	
FZG Scuffing Test, A/16.6/90, Fail Stage	13+	DIN 51534
Rust Prevention, Synthetic Sea Water	pass	ASTM D665B

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