Product Data

Optigear™ Synthetic SMR 16

Open Gear Lubricant

Description

Castrol Optigear™ Synthetic SMR 16 (previously called Optifluid™ SMR 16) is a high performance, high viscosity synthetic lubricant designed for use in large roller/thrust bearings and sugar mill brasses. The product characteristics give it properties that help in boundary lubrication seen in heavily loaded, low speed gears. The product is formulated with bases and additives carefully selected to prevent waste, oxidation and corrosion.

Optigear Synthetic SMR 16 is certified by NSF as an H1 lubricant (allowable for incidental food contact) and formulated in compliance with 21 CFR, Section 178.3570.

Application

Optigear Synthetic SMR 16 has been specifically designed for sugar mill brasses, which also provides characteristics mean suit other slowly rotating heavily loaded journal bearings.

Advantages

- Food grade NSF H1 approval.
- Excellent lubricant properties (it reduces the working temperatures when compared to asphaltic lubricants).
- High adhesiveness remaining in place even on vertical equipment.
- High capacity of supporting loads.
- Decreased consumption.
- Excellent corrosion protection and oxidation resistance.
- Compatible with non ferrous metals.
- Excellent behavior viscosity / temperature (high viscosity index).
- Can increase equipment life.

Typical Characteristics

Name	Method	Units	Optigear Synthetic SMR 16
Appearance	Supplier	-	Clear, tacky, adhesive
Kinematic Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm²/s	15500
Kinematic Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm²/s	449
Viscosity Index	ISO 2909 / ASTM D2270	None	158
Corrosion Preventative Properties (Rust Prevention)	ASTM D1743	-	Pass
Copper Corrosion	ASTM D4048	-	1a
Four Ball Load Wear Index	ASTM D2596	kgf	62.3
Evaporation Loss, %	ASTM D2596	%	2.49
Water Spray Off (100°F), Weight Loss	ASTM D4049	% wt	44.5

Subject to usual manufacturing tolerances.

This product was previously called Optifluid SMR 16. The name was changed in 2015.

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