



Optigear Synthetic DS 100

Synthetic Gear Oil

Description

Castrol Optigear[™] Synthetic DS 100 is a fully synthetic high performance gear lubricant, with a special additive combination, which provides reduced wear in the toothing parts at high loads.

These additives are particularly adjusted for the use in CST gears combined with hydraulics and special friction linings. It also shows significant improved shear stability and excellent air release properties, when compared to other synthetic lubricants. The good long life stability enables longer oil drain intervals compared to traditional mineral oil based fluids.

Application

Castrol Optigear[™] Synthetic DS 100 is especially designed for use in CST gears working mostly in subsurface mines. It can also be used in other gear applications, especially where specific friction linings used and also where gear teeth have to be protected against wear.

Advantages

- Reduced wear and high protection of gear parts
- High lubricant film stability
- Excellent long life stability
- High shear stability
- Excellent air release properties
- Low energy losses
- Good foam performance
- Good water separation properties

Typical Characteristics

Name	Method	Units	Synthetic DS 100
Appearance	Visual	-	Clear & Bright
Density @ 15°C / 59°F	ISO 12185 / ASTM D4052	kg/m³	840
Kinematic Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D 445	mm²/s	100
Kinematic Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D 445	mm²/s	14.3
Viscosity Index	ISO 2909 / ASTM D2270	-	140
Pour Point	ISO 3016 / ASTM D97	°C	-51
Foam Sequence I - tendency / stability	ISO 6247 / ASTM D892	ml / ml	0/0
Flash Point - open cup method	ISO 2592 / ASTM D92	°C	270
Water Separation @ 82°C / 180°F (40/37/3)	ISO 6614 / ASTM D1401	minutes	20
Copper corrosion (3 hrs@100°C/212°F)	ISO 2160 / ASTM D130	Rating	1B
Rust test - synthetic seawater (24 hrs)	ISO 7120 / ASTM D665B	Rating	Pass

Subject to usual manufacturing conditions.

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