



Product Data

Castrol Optigear RMO

Synthetic high performance and long-term gear oil with MICROFLUX TRANS™, the load-active additive combination

Description

OPTIGEAR™ RMO is a multi-grade, high performance and long-term gear oil, especially developed for drive units in rail-borne traffic and machine construction at extreme climatic conditions.

The MICROFLUX TRANS™ additive combination is solid-free, adjusts itself to varying conditions and actively reduces wear even under the most difficult operating conditions. Extremely low temperatures down to - 40°C/- 40°F are mastered without preheating the gears.

Application

- All kinds of spur gearings even when subjected to the most extreme loads
- Bevel gear pairs, also conical (hypoid) and at high changing loads
- All types of rolling bearings even at low temperatures
- Dip lubrication at high speeds as well as injection and oil mist lubrication

Advantages

- high load carrying capacity and wear protection
- reliable oil supply of bearings at low temperatures
- high scuffing load capacity
- outstanding long operating periods even under extreme conditions
- lowering of coefficient of friction and operating temperature
- combines good high-temperature with excellent low-temperature properties
- reduced running-in period of new drives
- good corrosion protection
- long service life of gears

Typical Characteristics

Test	Method	Unit	Value
CASTROL OPTIGEAR™	-	-	RMO
Colour	visual	-	green-brown
Density at - 15°C/+ 59°F	DIN 51757	kg/m ³	879
Kin. viscosity at + 40°C/+ 104°F + 100°C/+ 212°F	DIN 51562	mm ² /s	150 18
Viscosity index	DIN ISO 2909	-	133
Pour point	DIN ISO 3016	°C °F	-39 -38.2
Setting point	-	°C °F	-42 -43.6
Flash point	DIN ISO 2592	°C °F	204 399
FZG (A/16.6/90) Damage load stage	DIN 51354 (intensified special test)	mg/kWh	> 12
FZG-L-42- seizure load test	FZG-L-42	-	passed
SRV® test run - test mode 5ae: (ball/surface) ball scar diameter min. coefficient of friction max. coefficient of friction wear scar depth	DIN E 51834	mm μ μ μm	0.55 0.065 0.107 1.2

1 mm²/s $\hat{=}$ 1cSt

Subject to usual manufacturing tolerances

Additional Information

- Miscible and compatible with mineral, unleaded gear oils at any proportion.
- Maximum performance is only guaranteed if not mixed with any other product.
- Compatible with conventional sealing materials or paints in gear housings.
- Filtering (mechanical) does not lead to additive starvation.
- Not for synchro-mesh transmissions or locking differentials

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