



## Optigear™ OG Range

Open Gear Lubricant

### Description

Castrol Optigear™ OG Range (previously called Optifluid™ Range) is especially developed for use in rolls and open gears.

- Optigear OG 4 is an oil especially developed for the use in opened gears, beds and bearings subject the high loads, applied by bath or spray. It is formulated with additives carefully selected to prevent waste, oxidation and corrosion.
- Optigear OG 4 EP is an oil especially developed for the use in open gears, beds and bearings subject the high loads, applied by bath or spray. Optigear OG 4 EP is based on high viscosity base oil in combination with EP (Extreme Pressure) additive technology to provide optimum protection of gears / bearings. The product is designed to be used specifically in Type 2 open gears in Cement mills and kilns, Power Generation coal mills, Mining and Ore processing mills, SAG mills and Pebble mills. Optigear OG 4 EP can also used for heavy loaded antifriction and plain bearings.

### Application

Optigear OG 4 series is for open gears, rolling or slide bearings and guides. Supports high loads and with high adherence properties, maintaining a constant film on the metallic surfaces, even in vertical positions.

Optigear OG 4 EP has a higher load carrying capacity.

### Advantages

- 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.
- Excellent corrosion protection and oxidation resistance.
- Compatible with non ferrous metals.
- Excellent behavior viscosity / temperature (high viscosity index).
- Can increase of the useful life of equipment.

## Typical Characteristics

Name	Method	Units	OG 4	OG 4 EP
Colour	ASTM D1500	-	Amber	
Density @ 20°C / 68°F	ASTM D4052 / ISO 12185	kg/m <sup>3</sup>	907	924
Kinematic Viscosity @ 40°C / 104°F	ASTM D445 / ISO 3104	mm <sup>2</sup> /s	16000	13000
Kinematic Viscosity @ 100°C / 212°F	ASTM D445 / ISO 3104	mm <sup>2</sup> /s	560	550
Viscosity Index	ASTM D2270 / ISO 2909	-	185	201
Flash Point - open cup method	ASTM D92 / ISO 2592	°C/°F	250	220
Copper corrosion	ASTM D130 / ISO 2160	Rating	1a	1a
Steel Corrosion	ASTM D 665 - A	-	Pass	Pass
FZG Gear Scuffing test - A/8.3/90	ISO 14635-1	-	>12	>12
Four Ball Weld Load test - Weld Point	ASTM D2783	kgf	-	>800
Falex V-Block, weld load lb 3000+	ASTM D 3233	lb	>3000	>3000
Falex V-Block, wear (750 lb / 30 min.)	ASTM D 2670 Modified	Teeth	0 (zero)	0 (zero)

Subject to usual manufacturing tolerances.

**This product was previously called Optifluid Range. The name was changed in 2015.**

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