



RENOLIN CLP

Heavy duty - EP - industrial gear oils of highest performance, outstanding extreme pressure characteristics and load carrying capacity

Description

RENOLIN CLP oils are premium quality extreme pressure gear lubricants, manufactured from the highest quality base oils combined with extreme pressure additives of the sulphur-phosphorous type. This combination provides very high load-carrying properties and affords maximum protection for gear teeth in severe service conditions.

Advantages/Benefits

- Enhanced gear wear protection from micro-pitting
- Reduced debris denting from generated wear particles
- Improved bearing wear protection
- Outstanding compatibility with a range of seal materials
- Excellent resistance to oil oxidation and thermal degradation
- High resistance to sludge and deposit formation
- Wide range of applications
- Optimized resistance to rust and corrosion of steel and corrosion of copper and soft metal alloys.
- Resistance to foaming and emulsion formation

Application

RENOLIN CLP Series are recommended for all industrial applications where the machinery manufacturer recommends the use of CLP type oil. Highly-stressed bearings, joints, pressure spindles, spur and worm drive gears are reliably, effectively and economically lubricated even at elevated temperatures. The use of these oils guarantees the quiet and smooth running of machinery along with optimum operational reliability.

Specifications

RENOLIN CLP meets the requirements of

- DIN 51517-3 (2004):CLP
- ISO 6743-6 and ISO 12925-1: CKC/CKD
- US Steel 224
- AGMA 9005-D95/E02:EP
- David Brown S1 53.101

Approvals

The product of the RENOLIN CLP series (ISO 100 to ISO 680) are approved for

- A. Friedrich Flender AG, Bocholt, Germany
Flender BA 7300, table A
- Muller Weingarten AG, Germany
DT 55 005, 10/2003

TYPICAL CHARACTERISTICS

Properties	Unit	Value										Test Method
ISO Viscosity Grade		22	32	46	68	100	150	220	320	460		
Viscosity @ 40 °C	mm ² /s	22	32	46	68	100	150	220	320	460		ASTM D-445
@ 100 °C	mm ² /s	4.38	5.42	6.79	8.69	11.2	14.8	18.9	24.6	30.5		ASTM D-445
Viscosity Index	-	106	102	100	98	97	97	96	98	95		ASTM D-2270
Sp. Gr @ 85/85 °F	g/cm ³	0.860	0.868	0.871	0.881	0.886	0.888	0.892	0.894	0.896		ASTM D-1298
Flash Point	°C	214	222	232	236	238	242	246	250	260		ASTM D-92
Pour Point	°C	- 18	- 18	- 15	- 15	- 12	- 12	- 9	- 6	- 6		ASTM D-97
Neutralization no.	mgKOH/g	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4		ASTM D-974