

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-phosphorus type. This combination provides very high load-carrying properties and affords maximum protection for gear teeth in server 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 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 forming 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.

CHARACTERISTICS

Properties	Unit	Value										Test Method
ISO Viscosity Grade		22	32	46	68	100	150	220	320	460	680	
Viscosity @ 40 °C	mm ² /s	21.5	32.5	47	68	100	151	221	322	463	664	ASTM D 445
Viscosity @ 100 °C	mm ² /s	4.3	5.5	7.0	8.9	11.5	15.0	19.3	24.5	31.2	39.3	ASTM D 445
Viscosity Index		106	105	106	104	102	99	99	97	98	97	ASTM D 2270
Density @ 15 °C	kg/m ³	846	860	868	873	879	887	894	897	903	918	ASTM D 1298
Flash Point, COC	°C	214	224	228	230	238	242	245	255	264	300	ASTM D 92
Pour Point	°C	-18	-18	-15	-15	-12	-12	-9	-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	0.4	ASTM D 664

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