

## GEARMAXX CLPF (CLPF Type Synergetic Gear Oils)

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*(CLPF Synergetic based gear oil with special EP/AW additive containing high solid lubricants MoS<sub>2</sub> for modern high-performance heavy-duty gears)*

### DESCRIPTION

**GEARMAXX CLPF** are modern high-performance series of gear oils containing high solid lubricant additive (Molybdenum Disulphide) based on especially selected synergetic base oil with special EP/AW additive showing excellent thermal stability, good ageing stability as well as extraordinary wear protecting properties. Furthermore, they are equipped with particular solid lubricants in order to achieve extremely high load-carrying capacities. The solid lubricant (Molybdenum Disulphide) package dampens vibration and noise. The solid lubricants show their effect especially in the event of heavy impact loads. Furthermore, the solid lubricant package can result in an increase in load-carrying capacity and contact area percentage of the tooth flank.

**GEARMAXX CLPF** gear oils having remarkable properties results in a neutral behaviour and also compatible with non-ferrous heavy metals commonly used in seal materials. They also deliver a high thermal loading capacity, good ageing stability and excellent protection against corrosion.

**GEARMAXX CLPF** series of gear oils fulfill the requirements of the DIN 51517-3 specification and qualify as 'CLPF type' gear oils in accordance with DIN 51502 requirements.

### APPLICATIONS

- **GEARMAXX CLPF** series of gear oils are used in industrial gear boxes subject to slow running, heavy-duty gears with strong shock loads, vibrational loads and noise-dampening such as highly stressed, highly-loaded bearings, joints, pressing screws, bevel gears, planetary gears, spur gears, worm gears and spindles particularly when operating with low peripheral velocities and under shock load.
- **Application Industries** – Metal Processing, Steels, Forging, Casting, Machinery equipment, Cement, Construction, Mining, Quarrying, Exploration, Power generation & Other industries

### METHOD OF APPLICATION

**GEARMAXX CLPF** series of gear oils reduce friction significantly. Therefore, the temperature level of the gears can be lowered and the operating time of the oil can be extended. Maintenance intervals can be prolonged, too.

### ADVANTAGES & BENEFITS

- Outstanding Load carrying capacity even under shock loads and heavy vibrations.
- Good anti-seizing properties & excellent Brugger wear protection.
- Good stability against ageing and high thermal stability.
- Excellent corrosion protection and excellent corrosion protection.
- Dampen vibrations and noise, Smoothing effect of pre-damaged surfaces
- **GEARMAXX CLPF 1200 & 1500** has distinctive good emergency running properties that gives an additional suppression of oscillations

## PROPERTIES

Test	Method	CLPF 100	CLPF 220	CLPF 320	CLPF 460	CLPF 680	CLPF 1200	CLPF 1500
Visual	Black	Black	Black	Black	Black	Black	Black	Black
Density @ 15°C	ASTM D4052	891	901	900	911	922	920	915
Viscosity Index	ASTM D2270	103	102	102	102	102	104	106
Kinematic Viscosity @ 40°C	ASTM D445	101	219	332	462	681	1198	1498
Kinematic Viscosity @ 100°C	ASTM D445	11.2	19.0	24.0	30.4	38.7	59.6	72.5
Flash Point	ASTM D92	240	260	265	270	284	270	258
Pour Point	ASTM D97	-27	-24	-14	-12	-10	-12	-12
Acid number	ASTM D974	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Oxide Ash content	ASTM D482	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sludging and Corrosion TOST 1000 hour	ASTM D4310	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Corrosiveness & Rust test - distilled Water (24 hrs)	ASTM D665A	0-A	0-A	0-A	0-A	0-A	0-A	0-A
Copper corrosion (24 hrs@100°C) On Steel	ASTM D130	0-AB	0-AB	0-AB	0-AB	0-AB	0-AB	0-AB
On Copper	ASTM D130	1-100 A 3	1-100 A 3	1-100 A 3	1-100 A 3	1-100 A 3	1-100 A 3	1-100 A 3
Foam Sequence I - tendency / stability	ASTM D892	<50/0	<50/0	<50/0	<50/0	<50/0	<50/0	<50/0

### POWERMAXX LUBE INDIA

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