

Lubricants for industry.



## Gear XMP

Mineral lubricant with extreme sulfur-phosphorus additives, developed for all types of steel industrial gears, in a closed sump with special protection against micropitting.

### Use

- Gear XMP is especially recommended for all types of industrial steel gears in sealed gearboxes operating under harsh conditions and subject to high impact loads or high constant or intermittent forces, such as those operating at very high loads and speeds.
- Its excellent properties for withstanding extreme pressures make it essential for certain heavily loaded gearboxes at low speeds, where there is a risk of micropitting.

### Benefits

- Excellent lubricant properties. Reduces the coefficient of friction under thin film lubrication conditions.
- Special protection against micropitting events.
- Excellent demulsibility properties.
- Extraordinary thermal and oxidation stability. Prevents sludge from forming at high temperatures.
- Good anti-corrosive and antioxidant properties in the presence of moisture.
- High resistance to the formation of foams and emulsions with water.
- Facilitates controlled operation and prevents localized corrosion of gear teeth.
- Limits friction losses. Gears have uniform, silent operation.
- It increases the gear life by minimizing the presence of oxidized compounds, wear particles, and deposits in general.

### Specifications

- DIN 51517 Part 3 CLP
- AIST 224
- MÜLLER WEINGARTEN
- ISO 12925-1 Type CKC / CKD
- DAVID BROWN S1.53.101 Type E
- AGMA 9005-F16 AntiScuff
- FIVES CINCINNATI P-Specs
- SIEMENS FLENDER AG Rev. 13

### Physical and chemical properties

Parameter	Units	Method	Gear XMP		
<b>ISO Grade</b>	-	-	<b>220</b>	<b>320</b>	<b>460</b>
Viscosity at 40 °C	cSt	ASTM D-445	215.3	313	441
Viscosity at 100 °C	cSt	ASTM D-445	18.7	23.8	29.9
Viscosity index	-	ASTM D-2270	97	96	96
Density 15 °C	kg/l	ASTM D-4052	0.899	0.904	0.907
Flash point COC	°C	ASTM D-92	266	242	256
Pour point	°C	ASTM D-97	-21	-18	-12
Timken load ok	lb	ASTM D-2782	80	80	80
FZG Scuffing Test, Failure Stage	-	DIN 51354-2	>14	>14	>14
FZG Micropitting test, failure stage	-	FVA 54	>10	>10	>10
4-ball extreme pressure test Weld load, min.	kg	ASTM D-2783	250	250	250

### Health & safety and environment

A Material Safety Data Sheet providing information on product hazards, handling precautions, first aid measures, and relevant environmental data is available for this product as per applicable legislation.