



Gear Oil XD

Conoco Gear Oil XD is a high quality extreme-pressure industrial gear oil developed for the lubrication of enclosed gearboxes operating under severe-service conditions. It is manufactured with high viscosity index paraffinic base oils and fortified with extreme-pressure additives, to provide excellent lubricity and wear protection for gears and bearings subject to high peak loads or intermittent shock loads.

Gear Oil XD is available in three viscosity grades: ISO 460, 680 and 1000 (AGMA 7 EP, 8 EP and 8A EP).

Applications

- Enclosed gearboxes of mining and industrial machinery
- Enclosed industrial gearboxes operating in severe service, such as in steel mills
- Gear reducers and pinion stands of metal rolling mills, ball mills and cement mills
- Enclosed gearboxes of heavy construction and excavation equipment
- Hoists
- Chain and conveyor drives

Gear Oil XD meets the performance requirements of:

- AGMA Specification 9005-E02 (formerly 250.04)
- U.S. Steel 224

Outstanding Features

- Outstanding load-carrying capacity (80-lb Timken OK Load rating)
- Excellent protection against scuffing and wear
- Good oxidative and thermal stability
- Excellent lubricity
- High film strength
- Inhibited against rust, corrosion and foaming

**Severe-Duty
Extreme-Pressure
Gear Oil For
Enclosed
Gearboxes**

**U.S. Technical
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Gear Oil XD
Typical Properties

ISO Grade	460	680	1000
AGMA Grade	7 EP	8 EP	8A EP
Specific Gravity @ 15.6°C (60°F)	0.901	0.915	0.916
Density, lbs/gal	7.52	7.63	7.64
Color, Visual	Dark Amber	Dark Amber	Dark Amber
Flash Point (COC), °C (°F)	232 (450)	235 (455)	238 (460)
Pour Point, °C (°F)	-15 (5)	-9 (16)	-5 (23)
Viscosity,			
cSt @ 40°C	460	680	1,000
cSt @ 100°C	29.1	36.4	45.4
SUS @ 100°F	2,474	3,691	5,477
SUS @ 210°F	143	178	221
Viscosity Index	90	87	85
Acid Number, ASTM D974, mg KOH/g	0.47	0.47	0.47
Four-Ball EP, ASTM D2783, Weld Load, kgf	400	400	400
Four-Ball Wear, ASTM D4172, Scar Diameter, mm	0.38	0.37	0.35
FZG Gear Test, ASTM D5182, Pass Stage	>12	>12	>12
Timken OK Load, ASTM D2782, lb	80	80	80

Due to continual product research and development, the information contained herein is subject to change without notification.

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