



Technical Data Sheet

Attock Gear EXF

Product Overview: Attock Gear EXF Lubricants are engineered with a high Sulphur Phosphorous additive system, providing EXF exceptional rust and oxidation inhibition, corrosion resistance, and metal passivation. These lubricants outperform traditional leaded gear oils and are specifically designed for industrial gear drives requiring full EP (Extreme Pressure) performance.

Applications:

- Enclosed industrial gear drives
- Open gear drives (heavy grades)
- Cement mills
- Ball and rolling mills
- Crushers and conveyors
- Kilns
- Winches
- Machine tools
- Marine equipment

Benefits:

- Superior load-carrying and anti-friction properties
- High thermal stability additive system minimizes the formation of corrosive high-temperature compounds
- Prolongs equipment life

Performance Standards:

- AGMA 9005-E02
- DIN 51517 Part 3
- US Steel 224

Product Specifications:

Property	ASTM Method	EXF 100	EXF 150	EXF 220	EXF 320	EXF 460	EXF 680
ISO VG		100	150	220	320	460	680
Appearance	Visual	Clear	Clear	Clear	Clear	Clear	Clear
Specific Gravity at 60/60 °F	D 1298	0.894	0.899	0.900	0.904	0.908	0.933

Property	ASTM Method	EXF 100	EXF 150	EXF 220	EXF 320	EXF 460	EXF 680
Density at 85 °F	D 1298	0.885	0.890	0.892	0.895	0.900	0.924
Kinematic Viscosity at 40 °C (cSt)	D 445	99.0	152.0	222.0	322	460	670
Kinematic Viscosity at 100 °C (cSt)	D 445	11.15	14.96	19.26	24.4	30.80	34.5
Viscosity Index	D 2270	98	98	98	97	97	86
Flash Point (°C)	D 92	230	240	240	240	250	250
Water by Crackle Test		Negative	Negative	Negative	Negative	Negative	Negative
Pour Point (°C)	D 97	-15	-15	-15	-12	-12	-9

Typical Physical Characteristics:

- Clear appearance across all grades
- Consistent specific gravity and density
- Reliable kinematic viscosity at both 40 °C and 100 °C
- Stable viscosity index
- High flash point ensuring safety
- Negative water content by crackle test
- Low pour point for Excellent low-temperature performance