



# EP Industrial Gear Lubricants

AGMA 2 EP (ISO VG 68) through AGMA 7 EP (ISO VG 460)

## EP Industrial Gear Lubricants

### Benefits:

- Outstanding extreme pressure protection
- Anti-foam protection
- Rust and corrosion protection
- Exceptional demulsibility characteristics
- Resistance to oxidation sludge and varnish formation
- Non-corrosive to bronze, brass, copper and other yellow metal alloys

### Meet the following performance requirements (for the appropriate viscosity grades):

- US Steel 224
- AGMA 9005-E02
- DIN 51517, Part 3
- Cincinnati Machine
- David Brown S1.53.101

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ISO Viscosity Grade		68	100	150	220	320	460
		Typical	Typical	Typical	Typical	Typical	Typical
AGMA Grade	<b>Test Method</b>	2 EP	3 EP	4 EP	5 EP	6 EP	7 EP
API Gravity, 60°F	ASTM D-4052	29.7	29.0	28.3	27.5	26.9	26.3
Density, lbs/gal (g/L)	Calculated	7.32 (877)	7.35 (881)	7.38 (884)	7.42 (889)	7.45 (892)	7.48 (892)
Viscosity, cSt @ 40°C	ASTM D-445	66.2	95.4	144.5	216.9	309.2	462.8
Viscosity, cSt @ 100°C	ASTM D-445	8.9	11.4	14.9	19.3	24.0	31.0
Viscosity Index	ASTM D-2270	108	107	103	100	98	97
Pour Point, °F (°C)	ASTM D-5949	-17 (-27)	11 (-24)	-5.8 (-21)	-0.4 (-18)	5 (-15)	5 (-15)
Flash Point, °F (°C)	ASTM D-92	425 (218)	455 (235)	450 (232)	470 (243)	500 (260)	550 (288)
Color	ASTM D-1500	L 6.0	L 7.0	L 7.5	L 8.0	L 8.0	8.0
FZG Scuffing Test, stages	<b>ASTM D-5182</b>	12	12	12	12	12	12
Four-Ball Wear Test, mm	<b>ASTM D-4172</b>	0.34	0.30	0.24	0.24	0.27	0.27
Four-Ball EP Test Load-Wear Index (LWI), kgf Weld Point, kgf	<b>ASTM D-2783</b>	47 250	47 250	47 250	54 250	65 250	66 250
Timken OK Load, lbs	<b>ASTM D-2782</b>	60	60	60	65	65	75
Cincinnati Machine		P-63	P-76	P-77	P-74	P-59	P-35
<b>Product Code</b>		<b>7773</b>	<b>7774</b>	<b>7775</b>	<b>7776</b>	<b>7777</b>	<b>7778</b>

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