

## SUPERIOR GEAR OIL EP

### HIGH PERFORMANCE EXTREME PRESSURE GEAR OIL

Extreme pressure protection is assured with Superior Gear Oil EP. Under the most severe conditions of high load, shock load and reversing motion the additives in this robust gear oil will do their job, preventing the formation of scuffing and pitting.

Enclosed gearing systems in surface mining and mineral processing equipment are subjected to the most demanding operating conditions. Superior Gear Oil EP was formulated with mining in mind but is helpful in any severe industrial application.

The extreme pressure and anti-wear additives used in Superior Gear Oil EP form a protective chemical layer in the area of contact. Extreme load which would normally cause damage now causes the smoothing as surface irregularities get squashed down.

All Superior Gear Oil EP grades meet the requirements of DIN 51517-3.

#### BENEFITS:

- ANTI-WEAR - protects under the most severe conditions to extend gear life.
- ANTIFOAM - protects seals, lowers temperatures, and aids in extending oil life.
- LONG LIFE – additives deplete slowly
- TACKY - allows a protective film of lubricant to cling to gear surfaces during long shutdowns.
- SMOOTHING OF SURFACES – causes smoothing of the contact surfaces of bearings and gears under high load.

#### APPLICATIONS:

Superior Gear Oil EP is designed for use in heavily loaded gearboxes, including planetary drive systems and PIV chain drives.

ASTM #	Grade	150	220	320	460	680	1000	1500
<b>D-445</b>	<b>Kinematic Viscosity</b>							
	cSt @ 40°C	146	215	320	456	671	1,000	1,539
	cSt @ 100°C	15.20	19.82	28.00	36.1	50.00	61.50	83.10
<b>D-2270</b>	<b>Viscosity Index</b>	105	106	120	119	120	120	123
<b>D-97</b>	<b>Pour Point, °F °C</b>	(-10) -23	-10 (-23)	8 (-13)	12 (-11)	15 (-9)	10 (-12)	10 (-12)
<b>Method Gardner</b>	<b>Density, lb/gal @ 15.5°C</b>	7.30	7.30	7.51	7.45	7.41	7.53	7.57
	<b>Specific Gravity, g/cc @ 15.5°C</b>	0.876	0.876	0.902	0.895	0.884	0.902	0.909
<b>D-92</b>	<b>Flash Point, °F °C</b> (Cleveland Open Cup)	390 (199)	(400) 204	(400) 204	(400) 204	(400) 204	470 (243)	470 (243)
<b>D-2782</b>	<b>Timken OK Load, lb</b>	65	65	65	70	70	70	70
<b>D-2783</b>	<b>Four Ball</b> Weld Point, kg	500	500	500	500	500	500	500
<b>D-4172</b>	<b>Four Ball Wear</b> Scar Width, mm @ kgf	0.40	0.40	0.40	0.40	0.40	0.40	0.40
<b>D-130</b>	<b>Copper Strip Corrosion</b>	1B	1B	1B	1B	1B	1B	1B
<b>D-665</b>	<b>Rust Test</b>	Pass	Pass	Pass	Pass	Pass	Pass	Pass
<b>D-2893</b>	<b>Oxidation for Lubricating Oils,</b> % Viscosity Change	<6	<6	<6	<6	<6	<6	<6

*The above values are typical. Minor variations are to be expected that do not affect product performance*

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