



## PRODUCT DATA SHEET

DAVID WEBER OIL CO.

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### GIBRALTAR SYNGEAR EP SERIES

GIBRALTAR SYN-GEAR EP SERIES are synthetic extreme pressure (EP) industrial gear oils for use in enclosed spur, bevel, herringbone, helical, and chain drive gear boxes and other applications that require an AGMA EP or AGMA S gear oil. They are formulated to outperform petroleum EP gear oils and provide excellent gear and bearing protection in extreme hot and cold temperature, heavily loaded environments.

#### Properties:

- Sulfur/Phosphorus additives for EP protection
- Rust & Oxidation inhibited
- Shear stable
- Non-foaming
- Rapidly separates from water
- Compatible with seals
- Compatible with petroleum EP oils

#### Specifications:

- U.S Steel 224
- AGMA 250.04
- AGMA 9005-D94
- AGMA 9005-E02
- DIN 51517 part 3
- David Brown S1.53.101
- Cincinnati Milacron
  - ISO 100 P-76
  - ISO 150 P-77
  - ISO 220 P-74
  - ISO 320 P-59
  - ISO 460 P-35
  - ISO 460 P-78

**These EP Industrial Gear Oils are not recommended for use with automotive differential hypoid gears.**

**Gibraltar Syn-Gear EP Industrial Gear Oils are not compatible with polyglycol gear oils. Thorough flushing prior to changeover is required.**

## TYPICAL TECHNICAL PROPERTIES

<b>Gibraltar EP Syn-Gear</b>	<b>ISO 100</b>	<b>ISO 150</b>	<b>ISO 220</b>	<b>ISO 320</b>	<b>ISO 460</b>	<b>ISO 680</b>	<b>ISO 1000</b>
AGMA EP Gear	3 EP	4 EP	5 EP	6 EP	7 EP	8 EP	8A EP
AGMA Synthetic Gear	3S	4S	5S	6S	7S	8S	--
ISO VG-ASTM D-2422	100	150	220	320	460	680	1000
VK 100°C-ASTM D-445	14.35	19.30	25.54	32.79	43.28	55.41	77.35
VK 40°C-ASTM D445	104.69	156.75	228.59	329.70	477.41	697.54	1,079.19
Viscosity Index ASTM D-2270	140	141	142	140	141	140	145
Flash Point °C (°F) – ASTM D-92	242 (468)	244 (471)	248 (478)	250 (482)	248 (478)	250 (482)	250 (482)
Fire Point °C (°F) – ASTM D-92	268 (514)	270 (518)	274 (525)	280 (536)	276 (529)	274 (525)	276 (528)
Pour Point °C (°F) – ASTM D-97	-43 (-45)	-40 (-40)	-36 (-38)	-29 (-34)	-24 (-31)	-22 (-30)	-18 (-28)
NOACK – ASTM D-5800	4.1%	3.97%	3.41%	3.16%	2.73%	2.70%	2.77%
Four-Ball Wear Test – ASTM D-4172 Mod. (40kg, 1200 rpm, °C, 60 min.)	.40	.40	.40	.40	.40	.40	.40
Copper Strip Corrosion Test ASTM D-130 121°C (250°F) 3 Hours	1B	1B	1B	1B	1B	1B	1B
Timken EP Load ASTM D-2782	80 lbs	80 lbs	80 lbs	80 lbs	80 lbs	80 lbs	80 lbs
Four-Ball EP ASTM D-2783 Weld Point, kg Load Wear Index Kgf	315 60	315 60	315 62	315 62	315 62	315 62	315 62