

## ConocoPhillips Syncon® EP Gear Oil, AGMA number 8EP

Category : Fluid , Lubricant

**Material Notes:**

Description: Conoco Syncon EMGARD EP Gear Oil 680 is specifically formulated to protect moderate to heavily loaded industrial gears and bearings. It provides excellent antiwear and load-carrying capability, as well as strong rust inhibition and demulsibility performance. The EMGARD EP Gear Oil 680 meets or exceeds the requirements of the industry standard U.S. Steel 224 and AGMA 250.04 EP Synthetic Gear Lubricant specifications. EMGARD EP Gear Oil 680 is approved for use in General Atomics' Electrical Wheel Gear Unit and is approved for use in GE 772, 776, 791, 788, 787, GDY85 and GEB23 wheelmotors. Blended with 100 percent synthetic basestocks and advanced EP additives, EMGARD EP Gear Oil 680 provides improved high-temperature stability and cleanliness, low-temperature fluidity and overall lubricity. These characteristics help reduce costs by extending service intervals, eliminating seasonal oil changes, minimizing lubricant use and disposal and reducing power consumption. EMGARD EP Gear Oil 680 is suitable for use in spur, helical, herringbone, bevel and most types of industrial hypoid gearing. It is also suitable for ball, roller and other types of antifriction bearings. Worm Gear OEMs generally oppose the use of EP lubricants due to compatibility concerns of sulfur/phosphorus additives with bronze metallurgy. For this reason, the EMGARD EP Gear Oil 680 is not recommended for use in worm gearing. Moreover, in general, industrial gear lubricants are not formulated for some types of heavily loaded hypoid gearing. In these cases, automotive-type gear lubricants generally offer better protection. If uncertainty exists as to the appropriate type of lubricant to use with hypoid gearing, consult the operator's manual or the nearest Conoco field representative. Information provided by ConocoPhillips. EMGARD® is a registered trademark of Cognis Corporation.

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Physical Properties	Metric	English	Comments
Specific Gravity	0.885 g/cc	0.885 g/cc	60°F
API Gravity	28.4 °	28.4 °	60°F
Viscosity Measurement	124	124	Viscosity Index
Saybolt Viscosity at 100°F	3150 SUS	3150 SUS	
Saybolt Viscosity at 210°F	224 SUS	224 SUS	
Kinematic Viscosity at 40°C (104°F)	680 cSt	680 cSt	
Kinematic Viscosity at 100°C (212°F)	48 cSt	48 cSt	

Thermal Properties	Metric	English	Comments
Pour Point	-26.1 °C	-15.0 °F	
Flash Point	238 °C	460 °F	

**Contact Songhan Plastic Technology Co.,Ltd.**Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China