



TECHNICAL DATA SHEET

GEM GUARD SP 680

Industrial ISO VG 680 Gear Lubricant

Product Description:

Gem Guard SP 680 is an Extreme Pressure Heavy Duty Industrial Gear Oil providing exceptional EP performance and load carrying properties. Formulated from highly refined base oils and extreme pressure additives Gem Guard SP 460 protects against corrosion, has excellent water separating properties and is highly resistant to foaming in service

Advantages/Benefits:

- Excellent oxidation stability
- High level of EP performance
- Reduced micro-pitting
- Protects against corrosion
- Improved gear wear protection
- Good demulse properties

Application:

Gem Guard SP 680 is recommended for most types of enclosed gear applications. It is ideal for heavily loaded gear sets, including worm and industrial hypoid units and for gears which are subject to shock loading. It is also suitable for circulation or splash lubrication systems operating at peak temperatures of 120°C. It is also suitable for Chain Drives and Bearings.

For further information please contact your local representative or GEM Oils directly.



Typical Test data:

KV @40°C (cSt)	685
Colour	Dark Amber
VI	90
AGMA Grade	8EP
Density @ 15°C	0.912
Pour Point (°C)	-10
Flashpoint (°C)	270
Timken OK Load	95 lbs
4-Ball EP Test	≥2400 N
Weld load	≥250 kg

Health & Safety: (Group 1)

Please refer to the relevant MSDS which is available to all customers.

Availability:

Available in bulk, 1000 litre IBC's, 200 litre barrels, 20 litre drums.

Main Specifications:

DIN	51517-3 (2004): CLP
AGMA	250.04 & 9005-D94
ISO	12925-1: CKC
ISO	6743-6:CKC
David Brown	S1 53.101
Cincinnati Milacron	P-74 (C-220)
US Steel	224



Gem Oils use a QMS system which is ISO 9001:2015 approved

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