



## **Gear Shield® Synthetic** Open Gear Lubricant

### **Product Data Sheet**

#### **Product Description**

**Gear Shield® Synthetic** represents a new generation of open gear lubricants for heavy industry following in the footsteps of a long proven family of open gear lubricants from Petron.

**Gear Shield® Synthetic** is a semi-transparent synthetic open gear lubricant that provides a tenacious film on the working flanks of gear teeth on any open gear application allowing the lubricant film to be seen.

**Gear Shield® Synthetic** provides superior separation of gear teeth in the heaviest load zone of gear tooth mesh.

**Gear Shield® Synthetic's** base fluids are formulated with anti-wear additives, corrosion inhibitors, and extreme pressure additives that further enhance its protective qualities.

**Gear Shield® Synthetic** is an excellent choice for mills and kilns in Mineral processing, Power generation, Steel, and Cement industries.

#### **Features & Benefits**

- A semi-transparent synthetic fluid designed to lubricate heavily loaded open gears
- Anti-wear and extreme pressure additives provide excellent protection in the most heavily loaded zones along the pitch-line of gear tooth flanks
- Optimum consumption values as per AGMA & OEM guidelines
- Industry-leading FZG wear test result
- No build-up in gear tooth roots and drains freely from gear guard
- Pumps freely down to 0°F (-18°C). For colder applications heating may be required
- Environmentally friendly

#### **Product Application**

**Gear Shield® Synthetic** can be used in Ball Mills, Sag Mills, Rod Mills, Balling Discs, Kilns, Dryers, Quenchers, and Mixers.

**Gear Shield® Synthetic** may be applied by spraying, brushing or dripping.

**Gear Shield® Synthetic** is designed to be sprayed through all automatic lubrication equipment.

**Gear Shield® Synthetic** is available in pails, kegs, drums, bin tanks, and tank truck.

#### **Notes**

**Gear Shield® Synthetic** exceeds OEM and AGMA base oil viscosity requirements for open gear lubricants applied by intermittent spray application.

If you require further information, contact Petron at: [info@petroncorp.com](mailto:info@petroncorp.com)



## **Gear Shield® Synthetic**

Open Gear Lubricant

Property	Test Method	Typical Data
Color	Visual	Amber
Appearance	Visual	Viscous
Base Oil Viscosity, cSt @ 40°C	ASTM D445	>40,000
Undiluted Viscosity, cSt @ 100°C	ASTM D445	1,600
Finished Viscosity, cSt @ 40°C	ASTM D445	7,200
Flash Point	ASTM D92 (C.O.C.)	365°F (185°C)
Pour Point	ASTM D97	10°F (-12°C)
4 Ball, Weld, kg	ASTM D2596	800
FZG Load Stages Passed	DIN 51354	>12
FZG Specific Mass Loss (mg/kW.h)	DIN 51354	<0.2
Ventmeter, 600 psi	Lincoln VE-1	0°F @ 30 seconds
Rust Prevention	ASTM D665	Pass

**Emissivity setting for handheld temperature devices to be set at .60**

Testing listed is typical, no warranty is expressed or implied regarding results obtained from use. Information contained on this Product Data Sheet is subject to change without notification. Seller shall not be liable for any loss or damage.

Petron Corporation  
16800 W Glendale Drive, New Berlin, Wisconsin 53151  
Tel: (262) 797-4680 · Fax: (262) 796-1080  
Web: <https://www.petroncorp.com> ISO Certified

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