



# PRODUCT INFORMATION

FROM THE HOUSE OF PETRELPLUS INC.

## SYG-1380 MOLYBDENUM GREASE

### Product Description

**SYG-1380** is manufactured from a synthesized hydrocarbon fluid and a non soap thickener with Molybdenum Disulphide. It offers outstanding performance over wide temperature ranges, with the excellent retention and resistance to high-temperature degradation. In addition, it resists water washing, provides superior load-carrying ability, reduces frictional drag, and prevents excessive wear. Other tests show that **SYG-1380** prevents friction oxidation (fretting) and lubricates rolling element bearings under conditions of high speeds and temperatures. It has also shown superior ability to lubricate heavily loaded sliding mechanisms, such as wing flap screw jacks.

**SYG-1380** is designed for the lubrication of plain and rolling bearings at low to high speeds, and splines, screws, worm gears, and other mechanisms where high friction reduction, low wear, and low lubricant friction losses are required. It provides minimum resistance to starting at extreme low temperatures (down to -54°C/-65°C) as well as low running torque.

**SYG-1380** is recommended for use in landing wheel assemblies, control systems and actuators, screw jacks, servo devices, sealed-bearing motors, oscillating bearings, marine, marine blowers and helicopter rotor bearings on military and civil aircraft. Subject to equipment manufacturer approvals, it can also be used on naval shipboard auxiliary machinery.

**SYG-1380** also is recommended for industrial lubrication, including sealed or re-pack able ball and roller bearings wherever extreme temperature conditions, high speeds, or water washing resistance are factors. Typical industrial applications include conveyor bearings, small alternator bearings, high-speed miniature ball bearings, and bearing applications where oscillatory motion and vibration create problems.

**Recommended up to 375°C Temp.**

### Features and Benefits

Improved friction reduction, Low wear rates, low lubricant drag, wide temperature range, high thermal stability, compatibility with mineral-oil-base greases, extreme pressure characteristics, and high resistance to water washing

### Typical Properties

SYG-1380	
Thickener Type	Inorganic
Fluid Type	Synthetic Hydrocarbon
Colour, Visual	Visual Grey
Structure	Smooth, buttery
NLGI Grade	2
Penetration, ASTM D 217, 60 Strokes	25°C 270
Maximum Operating Temperature	380 °C
Dropping point, °C, ASTM D 566, IP 132	NIL
Corrosion Prevention, ASTM D 1743	Pass
Load Wear Index, ASTM D 2596, kg	30
Copper corrosion, ASTM D 130, 24 HR AT 100°C	None

Water Washout, ASTM D 1264,38°C	<b>1</b>
Four-Ball Wear Test, 40 kg at 75°C, 1200 rpm,1hr scar Diam, mm,ASTM D 2266,max	<b>1.3</b>
Evaporation loss ,ASTM D 972,22 HR AT 177°C,WT %	<b>10</b>
Oil separation,30 hr at 177°C,vol%	<b>5</b>
Low temperature Torque, ASTM D 1478, -54°C(-65°F),after 100,000 Strokes, starting/running g-cm	<b>10,000/1,000</b>
Rubber Swell, FTM 3603,L Type Synthetic 1week at 70°C, vol %	<b>6</b>

**Available Packs:**

- **5, 18, 180 Kg**
- **50, 100, 200 Grams Tube**

Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly.

The Material Safety Data Sheet (MSDS) are available upon request through our sales office.

\* All related specifications are meets or exceeds.

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