



255 East Brown Street, Birmingham, Ste 100, MI, 48009  
 Phone: 248-433-3500 • Fax: 248-433-1824  
 Email: [sales@permawick.com](mailto:sales@permawick.com)  
<http://www.permawick.com>

**An ISO9001 Certified Company**

PD P2AO 180  
 REV. #4  
 REV. DATE: July 26, 2010

## P2AO180PG PERMAGEL®

**PAO BASED SYNTHETIC LUBRICANT FOR SINTERED METAL BEARINGS**

### DESCRIPTION

PERMAWICK P2AO180 PermaGel is a plastic compatible synthetic lubricant formulated to provide increased service life and shear stability . The carefully selected additives contribute to both chemical and thermal stability. Flash and fire points are higher than conventional mineral oils and therefore substantially increase the operational safety margin PERMAWICK P2AO180 PermaGel is specially formulated for the fractional horsepower electric motor industry and has a temperature operating range of -40 to 125°C.

### PRODUCT FEATURES

- Designed to replace felts in FHP motors susceptible to leakage
- Easy Injection into motor end-shields
- Oxidation and corrosion resistant
- reduced rate of change of viscosity with temperature change
- High viscosity index and excellent low temperature fluidity
- Low evaporation rate

<u>PERFORMANCE TEST (PERMAGEL)</u>	<u>TEST METHOD</u>	<u>TYPICALS</u>
Base Oil		P2AO 180
Penetration (60 strokes, 25°C)	D217	NLGI #3
Color	Visual	Translucent, Yellow
Drop Point	D566	Without
Density		0.952
Copper Corrosion @ 100°C	D4048	1b
Pounds/Gallon		7.94
Structure		Homogenous

<u>PERFORMANCE TEST (BASEOIL)</u>	<u>TEST METHOD</u>	<u>TYPICALS</u>
Specific Gravity	D1298	0.8313
Color	D1500	0.5
Flash Point, °C	D92	230
Fire Point, °C	D92	260
Pour Point, °C	D97	< -60
Viscosity, cSt	D445	
100 °F		38.50
210 °F		6.25
Viscosity Index	D2270	122
Neutralization No., mg KOH/g	D664	0.01
Copper Strip Corrosion	D130	
3 hours @ 100°C		1B
Evaporation Loss, wt. %	D972	
22 hours @ 98.9 °C		0.4

**The World Leader in Fractional Horsepower Motor Lubrication**