



Permawick Company
 255 E. Brown Street, Suite 100, Birmingham, MI 48009
 Phone: 248-433-3500 • Fax: 248-594-3433
 sales@permawick.com
 www.permawick.com

An ISO9001 Certified Company
 PD P2AO 181PG
 REV. # 3
 REV. DATE: May 26, 2017

P2AO181PG PERMAGEL
PAO BASED SYNTHETIC LUBRICANT FOR SINTERED METAL BEARINGS

DESCRIPTION

PERMAWICK P2AO181 Permigel 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 P2AO181 Permigel 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: Permigel</u>	<u>ASTM Method</u>	<u>Typicals</u>
Base Oil		P2AO 181
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: Base Oil</u>	<u>ASTM 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. 40°C	D445	38.5
100°C		6.84
Viscosity Index	D2270	137
Neutralization No., mg KOH/gm	D664	0.01
Copper Corrosion		
3 hours @ 100°C	D130	1b
Evaporation Loss, % mass, grams		
22 hours @ 98.9°C	D972	0.4
Corrosion (Rust) protection		
55°C, 95% humidity, 140 hours	D1748	Pass

The World Leader in Fractional Horsepower Motor Lubrication