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**An ISO9001 Certified Company**  
 PD P2AO 180  
 REV. # 5  
 REV. DATE: May 5, 2020

**P2AO180 OIL**  
**PAO BASED SYNTHETIC LUBRICANT FOR SINTERED METAL BEARINGS**

**DESCRIPTION**

PERMAWICK P2AO180 OIL 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 OIL is specially formulated for the fractional horsepower electric motor industry and has a temperature operating range of -40 to 125°C.

**PRODUCT FEATURES**

- Long term hydrolytic stability and water separation
- Oxidation and corrosion resistant
- Reduced rate of change of viscosity with temperature change
- High viscosity index & very low pour point indicate excellent low temp fluidity
- Low evaporation rate

<b><u>Performance Test</u></b>	<b><u>ASTM Method</u></b>	<b><u>Typicals</u></b>	
Gravity, API	D1298	38.78	
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	40°C	38.5
		100°C	6.84
Viscosity, SUS	D88	100°F	180
		210°F	48.6
Viscosity Index	D2270	137	
Neutralization No., mg KOH/gm	D664	0.01	
Copper Corrosion	D130	3 hours @ 100°C	1b
		Evaporation Loss, % mass, grams	
22 hours @ 98.9°C	D972	0.4	

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

**PermaWick Product Data Sheet**