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**An ISO9001 Certified Company**  
 PD P2AO 180C  
 REV. # 1  
 REV. DATE: November 19, 2021

**P2AO180C OIL**  
**CONDUCTIVE PAO BASED SYNTHETIC LUBRICANT**

**DESCRIPTION**

PERMAWICK P2AO180C OIL is a plastic compatible synthetic lubricant formulated to provide electrical conductivity where needed. 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 electric motor industry and other applications where electrically conductive is need. It has a temperature operating range of -40 to 125°C.

**PRODUCT FEATURES**

- Electrically Conductive
- 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>
Ohms/Square*	Surface resistance	10 <sup>5</sup> Ω
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
		100°C
Viscosity, SUS	D88	100°F
		210°F
Viscosity Index	D2270	137
Neutralization No., mg KOH/gm	D664	0.01
Copper Corrosion	D130	3 hours @ 100°C
		1b
Evaporation Loss, % mass, grams	D972	22 hours @ 98.9°C
		0.4

\*Ohms/Square is described as an electric current flowing across a surface, it is the the ratio of DC voltage drop per unit length to the surface current per width.

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