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**An ISO9001 Certified Company**  
 PD PHC40PG  
 REV. # 2  
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## **PHC40PG PERMAGEL** **HYDRO-CRACKED LUBRICANT FOR SINTERED METAL BEARINGS**

### **DESCRIPTION**

PERMAWICK HYDRO-CRACKED (PHC) 40 OIL is formulated from a blend of specialty Hydro-treated paraffinic base stocks along with premium additives that provide improved protection against oxidation, corrosion and wear. The hydro-treating process produces high purity base oils that are able to surpass the performance of traditional solvent refined mineral based oils.

PHC40 oil and the PermaWick products made from it, maximizes FHP electric motor bearing life under a wide variety of conditions providing a new standard of excellence in performance. In many cases it allows this oil to be used in place of more costly synthetics.

### **PRODUCT FEATURES**

- Extremely long life
- Low volatility
- Enhanced anti-wear protection
- Low pour point and naturally high viscosity index
- Superior protection against oxidation
- Useful temperature range: -40°C to 60°C

#### **Performance Test: Permigel**

	<b><u>ASTM Method</u></b>	<b><u>Typicals</u></b>
Base Oil		PHC40
Penetration (60 strokes, 25°C)	D217	NLGI #2-3
Color	Visual	Colorless to Whitish
Drop Point	D566	Without
Density	D1298	0.93
Copper Strip Corrosion @ 100°C	D4048	1b
Pounds/Gallon		7.89
Structure		Homogenous

#### **Performance Test: Base Oil**

	<b><u>ASTM Method</u></b>	<b><u>Typicals</u></b>
Specific Gravity	D1298	0.820
Color	D1500	0.5
Flash Point, °C	D92	164
Pour Point, °C	D97	-52
Viscosity, cSt.    40°C	D445	24
100°C		2.38
Viscosity Index	D2270	127.3
Neutralization No., mg KOH/gm	D664	1.0
Copper Strip Corrosion		
3 hours @ 150°C	D130	1
Rust Test, distilled water	D665A	Pass
Rust Protection, sea water	D665B	Pass
Density lbs, gal	Conversion	6.84

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