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PWS 300

REV. #1

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PWS300 Oil

DESCRIPTION

PERMAWICK PWS OILS have been formulated especially for **extremely high temperature** applications. In addition, these oils provide protection against oxidation, corrosion, and wear. PERMAWICK PWS300 oil was designed to be impregnated into sintered metal bearings where it could be utilized at temperatures up to 250°C. PWS300 also provides excellent chemical compatibility with many plastics, low flammability, and low toxicity.

PRODUCT FEATURES

- Extremely high temp applications not tolerated by Esters or PAO's
- Very long life
- Low evaporation
- Shear stable
- Low pour points and high viscosity index indicate excellent low temperature flow properties and therefore continued protection during periods of both low and high temperature operation.
- PWS300 is recommended for high temperature motors up to 250°C.

Performance Test

ASTM Method

Typicals

Specific gravity	D1298	0.98
Color	D1500	Straw Yellow & clear
Flash Point, °C	D92	285
Ignition temp °C	D92	484
Pour Point, °C	D97	-65
Viscosity, cSt. @25°C	D445	255.76
Viscosity, cSt. @40°C		189.65
Viscosity, cSt @100°C		78.85
Viscosity Index	D2270	429
Accelerated thin film oxidation test, 250°C*		>600 hrs.
Standard oxidation test, 250°C**		>1200 hrs.

Note: Life expectancy depends on a variety of factors such as the environment the motor is in and the bearing material composition

*Standard oxidation test is 25grams of oil in 100ml beaker

**Accelerated oxidation test is 2 grams oil in a petri dish

Check compatibility by testing if this oil come in contact with silicone plastics