

Technical Data Sheet

Skydrol® PE-5

Applications

- Aviation hydraulic fluid

Product Description

Skydrol PE-5 was developed to meet and exceed the more demanding Type V fluid requirements. It features the longest fluid life of any commercially available fluid, low density and low viscosity at low temperature—an unbeatable combination of the best features for optimum fluid performance. Thermal stability is according to Airbus test method, Fluid life test with 0.5% moisture level.

Typical Properties

Property	Test Method	Typical Value, Units
General		
Acid Number (mg KOH/g)		0.10 Maximum
Appearance		Clear, oily liquid
Autoignition Temperature	ASTM D 2155	400 °C (752 °F) Minimum
Color		Purple, essentially equivalent to intensity and hue standard
Elemental Content		
Calcium		10 ppm, Maximum
Chlorine		50 ppm, Maximum
Potassium		26-41 ppm
Sodium		10 ppm, Maximum
Sulfur		1185-1540 ppm
Fire Point		
COC		177 °C (350 °F) Minimum
Flash Point		
COC		160 °C (320 °F) Minimum
Moisture		0.20 % Maximum
Particle Contamination ^a		
15-25 micron size		5,700 Maximum
25-50 micron size		1,012 Maximum
50-100 micron size		180 Maximum
5-15 micron size		32,000 Maximum
Over 100 micron size		32 Maximum
Pour Point		-62 °C (-80 °F) Maximum
Specific Gravity		
@ 25°C/25°C		0.990-1.000
Viscosity		
@ 38°C (100°F)		9.02-10.02 cSt
@ -54°C (-65°F)		2000 cSt Maximum
@ 99°C (210°F)		3.11-3.51 cSt

^aNAS 1638 particle counts per AS4059F

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