

Technical Data Sheet

Skydrol® PE-5

Application/Uses

- Aviation hydraulic fluids

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 according to Airbus test method, Fluid life test with 0.5% moisture level.

Typical Properties

Property	Test Method	Typical Value, Units
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		
5-15 micron size		32,000 Maximum
15-25 micron size		5,700 Maximum
25-50 micron size		1,012 Maximum
50-100 micron size		180 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		

@ 99°C (210°F)

3.11-3.51 cSt

@ 38°C (100°F)

9.02-10.02 cSt

@ -54°C (-65°F)

2000 cSt Maximum

^a NAS 1638 particle counts per AS4059F

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