EASTMAN

Technical Data Sheet

Skydrol® LD4 Fire Resistant Hydraulic Fluid

Application/Uses

- Aviation hydraulic systems

Product Description

Skydrol LD-4 was introduced in 1977 , and is well known around the world. At the time of its introduction it was a breakthrough product, solving problems of valve erosion and thermal stability common in earlier fluids. Its excellent thermal stability under real world conditions has given it a reputation as the gold standard among Type IV fluids. Skydrol LD-4 features low density, excellent thermal stability, valve erosion prevention, and deposit control.

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		30 ppm, Maximum
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		1.003-1.013
Viscosity		
@ 99°C (210°F)		3.66-4.00 cSt
@ 38°C (100°F)		10.65-11.65 cSt
@ -54°C (-65°F)		2000 cSt Maximum

[a] *NAS 1638 particle counts per AS4059F*

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