

Technical Data Sheet

Skydrol® 5 Hydraulic Fluid

Applications

- Aviation hydraulic fluid

Product Description

Introduced in 1996, Skydrol 5 was the first Type V fluid qualified under the Boeing BMS 3-11 specification. Skydrol 5 offers higher temperature capability than Type IV fluids, the lowest density, and better paint compatibility. Skydrol 5 does not have universal air frame manufacturer approval, so consult Eastman's Skydrol Technical Service (800-260-4150) for specific approval and application information.

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	399 °C (750 °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
Flash Point		
COC		154 °C (310 °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		0.970-0.980
Viscosity		
@ 38°C (100°F)		9.00-9.84 cSt
@ -54°C (-65°F)		2600 cSt Maximum
@ 99°C (210°F)		3.01-3.41 cSt

^aNAS 1638 particle counts per AS4059F