

Technical Data Sheet

Skydrol® LD4 Fire Resistant Hydraulic Fluid

Applications

- Aviation hydraulic fluid

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

^aNAS 1638 particle counts per AS4059F

Eastman and its marketing affiliates shall not be responsible for the use of this information, or of any product, method, or apparatus mentioned, and you must make your own determination of its suitability and completeness for your own use, for the protection of the environment, and for the health and safety of your employees and purchasers of your products. No warranty is made of the merchantability of fitness of any product, and nothing herein waives any of the Seller's conditions of sale.

2/28/2018 11:35:39 AM

© 2024 Eastman Chemical Company or its subsidiaries. All rights reserved. As used herein, ® denotes registered trademark status in the U.S. only.