

ExxonMobil Exxon Hyjet IV-A

Category : Fluid , Lubricant

Material Notes:

Exxon HyJet IV-Aplus is a fire-resistant phosphate ester hydraulic fluid designed for use in commercial aircraft. It is the best-performing Type IV fluid and offers to a great extent many of the performance capabilities of Type V fluids, including high temperature stability, low density, and rust protection. It is superior to all other Type IV fluids in these respects. Exxon HyJet IV-Aplus meets the specifications of all major aircraft manufacturers and SAE AS1241. Exxon HyJet IV-Aplus fire-resistant aviation hydraulic fluid is used in commercial aircraft hydraulic systems where phosphate hydraulic fluids are recommended. Exxon HyJet IV-Aplus meets or exceeds the following industry and builder specifications. It is approved against the aircraft manufacturer requirements and is included in their Qualified Products Lists.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Exxon-Hyjet-IV-A.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.996 g/cc	0.996 g/cc	25°C; ASTM D4052
Density	1.001 g/cc @Temperature 15.6 °C	0.03616 lb/in ³ @Temperature 60.1 °F	ASTM D4052
Viscosity Measurement	320	320	Index; ASTM D2270
Viscosity Measure	1320 cSt @Temperature -54.0 °C	1320 cSt @Temperature -65.2 °F	Kinematic Viscosity; ASTM D445
Kinematic Viscosity at 40°C (104°F)	10.55 cSt	10.55 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	3.57 cSt	3.57 cSt	ASTM D445
Evaporation Loss	15 %	15 %	6 hr @ 71°C

Mechanical Properties	Metric	English	Comments
Bulk Modulus	1.448 GPa	210.0 ksi	Isothermal secant at 100°F/3000psi

Thermal Properties	Metric	English	Comments
CTE, linear	860 µm/m-°C @Temperature 25.0 - 100 °C	478 µin/in-°F @Temperature 77.0 - 212 °F	
Specific Heat Capacity	1.72 J/g-°C	0.410 BTU/lb-°F	
Thermal Conductivity	0.138 W/m-K @Temperature 40.0 °C	0.957 BTU-in/hr-ft ² -°F @Temperature 104 °F	
Pour Point	<= -62.0 °C	<= -79.6 °F	ASTM D97

Thermal Properties	Metric	English	Comments
	>= 427	>= 427	Auto Ignition [°C]
Flash Point	174 °C	345 °F	ASTM D92

Component Elements Properties	Metric	English	Comments
Calcium, Ca	0.011 %	0.011 %	
Chlorine, Cl	<= 0.00070 %	<= 0.00070 %	
H2O	0.10 %	0.10 %	
Potassium, K	0.0037 %	0.0037 %	
Sodium, Na	0.00 %	0.00 %	
Sulfur, S	0.022 %	0.022 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	71.4 ohm-cm @Temperature 20.0 °C	71.4 ohm-cm @Temperature 68.0 °F	

Chemical Properties	Metric	English	Comments
Total Acid Number	0.040	0.040	mgKOH/g; ASTM D974

Descriptive Properties	Value	Comments
Foam Sequence I, ASTM D1137	0/0	
Foam Sequence II, ASTM D893	0/0	
Foam Sequence III, ASTM D893	0/0	
Particle Count, NAS 1638 Class	4	
Sonic Shear Stability, KV change %	22	@ 40°C

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