

ExxonMobil Exxon Hyjet V

Category : Fluid , Lubricant

Material Notes:

Exxon HyJet V is a Type V fire-resistant phosphate ester hydraulic fluid, which is superior in thermal and hydrolytic stability to commercially available Type IV hydraulic fluids. Better stability means extent of fluid degradation in aircraft systems will be less than Type IV fluids, in-service fluid life will be longer, and aircraft operator maintenance costs will be lower. HyJet V provides excellent high and low temperature flow properties (kinematic viscosities) and rust protection. HyJet V has also demonstrated an improvement over the erosion protection performance afforded by Type IV fluids. Exxon HyJet V is designed for use in commercial aircraft phosphate ester hydraulic systems. It meets the SAE AS1241 requirements and is included in the Airbus NSA3071 10 and Boeing BMS 3-11M qualified products list. It is compatible in all proportions with commercial Type IV and Type V phosphate ester aviation hydraulic fluids.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	0.998 g/cc	0.998 g/cc	25°C; ASTM D4052
Density	1.003 g/cc @Temperature 15.6 °C	0.03624 lb/in ³ @Temperature 60.1 °F	ASTM D4052
Viscosity Measurement	320	320	Index; ASTM D2270
Viscosity Measure	1400 cSt @Temperature -54.0 °C	1400 cSt @Temperature -65.2 °F	Kinematic Viscosity; ASTM D445
Kinematic Viscosity at 40°C (104°F)	10.8 cSt	10.8 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	3.6 cSt	3.6 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	1.76 J/g-°C	0.420 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	

Thermal Properties	Metric	English	Comments
Flammability Test	185	185	Fire Point [°C]
	>= 427	>= 427	Auto Ignition [°C]
Flash Point	174 °C	345 °F	ASTM D92

Component Elements Properties	Metric	English	Comments
Calcium, Ca	0.00070 %	0.00070 %	
Chlorine, Cl	<= 0.00080 %	<= 0.00080 %	
H2O	0.10 %	0.10 %	
Potassium, K	0.0038 %	0.0038 %	
Sodium, Na	0.00050 %	0.00050 %	
Sulfur, S	0.0050 %	0.0050 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	250 ohm-cm @Temperature 20.0 °C	250 ohm-cm @Temperature 68.0 °F	

Chemical Properties	Metric	English	Comments
Total Acid Number	0.050	0.050	mgKOH/g; ASTM D974

Descriptive Properties	Value	Comments
Foam Sequence I, ASTM D1136	0/0	
Foam Sequence II, ASTM D893	0/0	
Foam Sequence III, ASTM D893	0/0	
Particle Count, NAS 1638 Class	5	
Sonic Shear Stability, KV change %	21	@ 40°C

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