



HyJet™ V

ExxonMobil Aviation , Chile

Fire-Resistant Phosphate Ester Aviation Hydraulic Fluid

Product Description

Mobil 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 the extent of fluid degradation in aircraft systems will be less than Type IV fluids, in-service fluid life will be longer, and consequently : operator maintenance costs may be lower.

HyJet V provides excellent high and low temperature flow properties (kinematic viscosities) and rust protection. HyJet V has also demonstrated an improvement on erosion protection performance afforded by Type IV fluids.

Features and Benefits

Mobil HyJet V offers the following key features and benefits:

Features	Advantages and Potential Benefits
Higher stability than Type IV fluids	Longer fluid life, Lesser need to replace fluid due to degradation, Reduced hydraulic system maintenance costs
Meets Boeing BMS 3-11 and SAE AS1241 Type IV and Type V requirements	Improved flammability characteristics over meeting just the Type V requirements
Low density	Reduced weight of the hydraulic fluid carried by aircraft, Reduced aircraft fuel consumption, Lower operating costs
Excellent rust protection	Reduced risk of equipment damage in the event of major water contamination
Excellent low and high temperature viscosity balance	Precise hydraulic system control and response even during extended range/ flights, Longer aircraft hydraulic system equipment life
Excellent deposit control	Longer aircraft hydraulic system equipment life, Reduced maintenance costs
Improved protection against electro-chemical corrosion (erosion)	Protection against servo valve and pump damage
Fully compatible with all approved Type IV and Type V phosphate ester hydraulic fluids	Flexibility in use by airline operators

Applications

Mobil HyJet V is designed for use in commercial aircraft phosphate ester hydraulic systems. It meets the SAE AS1241 requirements and is included in commercial business airframe manufacturer Qualified Products Lists, as shown below. It is compatible in all proportions with commercial Type IV and Type V phosphate ester hydraulic fluids.

Specifications and Approvals

This product has the following approvals:
AIRBUS NSA 307110N -Type V

<b>This product has the following approvals:</b>
BOEING, BMS 3-11P, Type V, Grade A and C
Boeing-Long Beach DMS2014H - Type 5
GULFSTREAM 1159SCH302J - Type V

Properties and Specifications

Property	
Acid Number, mgKOH/g, ASTM D974	0.04
Autoignition Temperature, F, ASTM D2155	>427 (800)
Bulk Modulus, Isothermal secant at 100 F/3000 psi, psi, ASTM D6793	210000
Calcium, ppm, ICPES	4
Chlorine, ppm, XRF	10
Coefficient of Thermal Expansion, 25 to 100 C, per degree C, API MPMS 11.1	0.00086 (0.00048)
Conductivity @ 20 C, MicS/cm, ASTM D2624	0.4
Density @ 60 F, lb/USg, ASTM D4052	1.000 (8.35)
Fire Point, Cleveland Open Cup, °F, ASTM D92	186 (366)
Flash Point, Cleveland Open Cup, °F, ASTM D92	174 (346)
Foam, Sequence I, Collapse Time, s, ASTM D892	32/18
Foam, Sequence II, Collapse Time, s, ASTM D892	23/13
Foam, Sequence III, Collapse Time, s, ASTM D892	34/19
Four-Ball Wear Test, Scar Diameter, 10 kg, 600 rpm, 1 h, 75 C, mm, ASTM D4172 (mod)	0.26
Four-Ball Wear Test, Scar Diameter, 4 kg, 600 rpm, 1 h, 75 C, mm, ASTM D4172 (mod)	0.21
Four-Ball Wear Test, Scar Diameter, 40 kg, 600 rpm, 1 h, 75 C, mm, ASTM D4172 (mod)	0.63
Kinematic Viscosity @ 100 F, mm2/s, ASTM D445	10.6
Kinematic Viscosity @ 127.6 C, mm2/s, ASTM D445	2.6
Kinematic Viscosity @ -15 F, mm2/s, ASTM D445	132
Kinematic Viscosity @ 210 F, mm2/s, ASTM D445	3.6
Kinematic Viscosity @ -65 F, mm2/s, ASTM D445	1350
Potassium, ppm, ICPES/AA	38
Shear Stability, % Kinematic Viscosity Loss, 40 C, %, ASTM D5621	21
Sodium, ppm, ICPES	1

Property	
Specific Gravity, 25 C/25 C, ASTM D4052	0.997
Specific Heat Capacity, cal/g-deg.C, Reference	0.42
Sulfur, ppm, ICPEs/XRF	51
Thermal Conductivity at 40 C, Cal / (cm s oC), Reference	33x10^-5 (0.0799)
Viscosity Index, ASTM D2270	280
Water Content, mass%, ASTM D6304	0.09
Pour Point, °F, ASTM D97 / ASTM D5950	-80
NAS 1638 Class, HIAC, ISO 11500	7

Health and safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.as>

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04-2022

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