Aviation hydraulic oil 10#

Performance Overview

Maxtop Aviation hydraulic oil 10# is made by deeply refined low freezing point synthetic base oil, adding a certain amount of viscosifier, antioxidant, oiliness agent, defoamer and dyeing agent. Aviation hydraulic oil is an indispensable medium in aviation hydraulic system, which has excellent low temperature performance, viscos-ive-temperature characteristics and anti-oxidation stabili-ty. It can maintain good fluidity in extremely cold high-alti-tude environments, while maintaining stable viscosity at high temperatures, ensuring stable operation of the hydraulic system over a wide temperature range. Aviation hydraulic oil also has good wear resistance, corrosion resistance and foam resistance, providing reliable lubrica-tion and power transmission support for aircraft.

Features

01

Good low temperature performance: It can maintain good fluidity in low temperature envi-ronment and is suitable for hydraulic systems working in cold areas.

02

Excellent oxidation stability: The oil has a long service life and is not easily oxidized and deteriorated due to high temperature.

03

Outstanding anti-rust and anti-corrosion performance: prevents corrosion of metal parts inside the hydraulic system.

04

Excellent viscosity-tem-perature performance: Maintain appropriate viscosity at different temperatures to ensure stable operation of the hydraulic system.

Application Scenario

It is suitable for the working fluid of aviation hydraulic mechanisms and can also be used as the working fluid of other hydraulic mechanisms in similar working environ-ments.

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Project			Quality indicators
Appearance			Red transparent liquid
Kinematic viscosity, mm 2 /s	-50℃	Not less than	10
	50℃	No more than	1250
Corrosion (70 ± 2 ℃, 24 h) , Grade		No more than	2
Initial distillation point, ℃		not less than	210
Acid value a , mgKOH/g		No more than	0.05
Flash point (open) , ℃		No less than	92
Pour point , ℃		No higher than	-70
Water content, mg/kg		not more than	60
Mechanical impurities, %			none
Water soluble acid or base			none
Oil film quality (65±1℃, 4h)			qualified
Low temperature stability (-60±1℃, 72h)			qualified
Ultrasonic shear (40℃ kinematic viscosity reduction rate), % not more than			16
Oxidation stability (140℃, 60h)			
a. Kinematic viscosity after oxidation, mm 2 /s			
50℃		not less than	9.0
-50℃		not more than	1500
b. Acid value after oxidation, mgKOH/g		not more than	0.15
C. Corrosion rate, mg/ cm^2			
Steel sheet		no larger than	±0.1
Copper sheet		no larger than	±0.15
Aluminum sheet		no larger than	±0.15
Magnesium flakes		no larger than	±0.1
Density (20℃), kg/ m^3		not more than	850

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