

MILITARY AVIATION

JP-8

Military Aviation Turbine Fuel — Land Bases

PRIMARY SPEC

MIL-DTL-83133

NATO CODE

F-34

DOCUMENT

TDS · Rev. 2026-07

PRODUCT OVERVIEW

JP-8 is NATO's primary land-based military aviation fuel. Under the Single Fuel Concept it also powers ground vehicles and generators, simplifying battlefield logistics.

Typical applications: Fighters · Transport · Rotary-wing · Ground vehicles · Generators

KEY TECHNICAL PROPERTIES

PROPERTY	LIMIT / VALUE	TEST METHOD
Specification	MIL-DTL-83133 / NATO F-34	—
NATO Code	F-34	STANAG 3747
Flash Point (min)	38°C (100°F)	ASTM D56
Freeze Point (max)	−47°C (−53°F)	ASTM D2386
Density at 15°C	775–840 kg/m³	ASTM D4052
Net Heat of Combustion (min)	42.8 MJ/kg	ASTM D4809
Viscosity at −20°C (max)	8.0 mm²/s	ASTM D445
Distillation 10% vol (max)	205°C	ASTM D86
Final Boiling Point (max)	300°C	ASTM D86
Aromatic Content (max)	25% vol	ASTM D1319
Sulfur Content (max)	0.30% mass	ASTM D4294
Lubricity BOCLE wear scar (max)	0.85 mm	ASTM D5001
Additives	CI/LI + FSII (DiEGME) + SDA	MIL approved

QUALITY & SUPPLY NOTES

Mandatory military additive package: corrosion inhibitor/lubricity improver, fuel system icing inhibitor, and static dissipater. Full STANAG interoperability.

Values shown are typical specification limits for guidance. Batch CoA prevails. Suat Fuels supplies certified product with full documentation at 2,200+ airports worldwide.