

MILITARY / NAVAL AVIATION

JP-5

High Flash Point Aviation Fuel — Naval

PRIMARY SPEC
MIL-DTL-5624NATO CODE
F-44DOCUMENT
TDS · Rev. 2026-07

PRODUCT OVERVIEW

JP-5 is a high-flash-point kerosene fuel engineered for aircraft carrier operations. Its elevated flash point reduces fire risk in enclosed shipboard environments.

Typical applications: Aircraft carriers · Naval aviation · Shipboard storage & handling

KEY TECHNICAL PROPERTIES

PROPERTY	LIMIT / VALUE	TEST METHOD
Specification	MIL-DTL-5624	—
NATO Code	F-44	STANAG
Flash Point (min)	60°C (140°F)	ASTM D56 / IP 170
Freeze Point (max)	−46°C (−51°F)	ASTM D2386
Density at 15°C	0.788–0.845 kg/L (typical)	ASTM D4052
Net Heat of Combustion (min)	42.6 MJ/kg	ASTM D4809
Total Sulfur (max)	0.30% mass	ASTM D4294
Aromatics (max)	25% volume	ASTM D1319
Viscosity at −20°C (max)	8.5 cSt	ASTM D445
Additives	CI/LI + FSII + SDA (military package)	MIL approved
Primary Use	Carrier-based military aircraft	—

QUALITY & SUPPLY NOTES

Higher flash point vs JP-8 (38°C) is mandatory for fire safety in enclosed carrier environments. Compatible with land-based aircraft when required.

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