AL QAMRA
القمرة للنفط والغاز

PRODUCT DATA SHEETS (PDS)

Aviation Turbine Fuel (Jet A-1)

Compliance Standard: AFQRJOS Checklist / DEF STAN 91-091 / ASTM D1655

Product Classification: Commercial & Military Aviation Turbine Fuel
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Product Overview:

Al Qamra Jet A-1 is a high-purity kerosene-type distillate fuel specifically manufactured for use in commercial aviation gas-turbine engines. It possesses superior thermal stability, excellent low-temperature fluidity, and precise combustion characteristics strictly conforming to the highest international civil aviation safety frameworks.

Technical Specifications Table

Property	Units	Test Method (ASTM/ISO)	Specification Limits	Typical Value
Flash Point	°C	ASTM D56 / IP 170	Min 38.0	42.0
Freezing Point	°C	ASTM D5972 / IP 435	Max -47.0	-50.0
Density @ 15°C	kg/m³	ASTM D4052 / IP 365	775.0 – 840.0	804.0
Total Sulfur	% mass	ASTM D4294 / IP 336	Max 0.30	0.05
Mercaptan Sulfur	% mass	ASTM D3227 / IP 342	Max 0.003	0.001
Net Heat of Combustion	MJ/kg	ASTM D4809 / IP 12	Min 42.80	43.20
Smoke Point	mm	ASTM D1322 / IP 57	Min 25.0	27.5
Existent Gum	mg/100 mL	ASTM D381 / IP 131	Max 7.0	1.5
MSEP (Without Electrical Conductivity Additive)	—	ASTM D3948	Min 85	95

Storage & Handling Recommendations:

- Must be stored in dedicated, epoxy-coated steel aviation fuel tanks.
- Strict filtration and water-separation protocols must be executed during every transfer step to ensure zero free-water contamination.