



D-18A  
 DATE: February 18, 2011  
 REVISION : 15 R

**PRODUCT SPECIFICATION**

**JET FUEL, TYPE A-1**      Page 1 of 2

<b><u>SPECIFICATION</u></b>	<b><u>MIN</u></b>	<b><u>MAX</u></b>	<b><u>TEST METHOD</u></b>
Freezing point, °C,		-47	D5972
Density @ 15°C, kg/L	0.775	0.840	D1298/D4052
Flash point, °C	38		D56
Sulphur, % mass		0.30	D4294/D5453
Mercaptan, ppm		30	D3227
Colour, Saybolt	12		D156
Corrosion, Copper strip, 2 h @ 100°C		No. 1	D130
Existent gum, mg/100 mg		7	D381
Net heat of combustion, MJ/kg	42.8		D4529/D4809
Combustion properties, one of the following:			
1- Smoke point, mm	25		D1322
2- Smoke point, mm, with	18		D1322
Naphthalene content, % volume		3.0	D1840
Viscosity @ -20°C, cSt		8.0	D445
Distillation, °C			D86
Initial Boiling Point		Report	
10%		205	
20%, 50% et 90%		Report	
Final Boiling Point		300	
Residue, %vol.		1.5	
Loss, %vol.		1.5	
Aromatics, % volume		25	D1319
Total acidity, mg KOH/g		0.1	D3242

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Page 2 of 2

<b><u>SPECIFICATION</u></b>	<b><u>MIN</u></b>	<b><u>MAX</u></b>	<b><u>TEST METHOD</u></b>
Appearance	Bright and Clear		
MSEP (Note 1)	75 92		D3948 D7224
Particulate matter, mg/L			D2276/5452
Aircraft and Tank Trucks		0.44	
Bulk storage		2.2	
Thermal stability			D3241
JFTOT, mm Hg		25	
Tube colour code		<3	
Metal deactivator (Note 1), mg/L		5.7	
Conductivity, pS/m, @ point, time and delivery temp.	50	600	D2624
Static dissipator additive, Stadis 450, mg/L (Note 2)		3	

Under written notification to the purchaser, few specs may be waived, as indicated below:

- Note 1: CAN/CGSB-3.23-2009 standard allows the utilization of test methods D3948 or D7224, the former to be used in the event of a dispute. ASTM D1655 standard only allows test method D3948.
- Note 2: Excluding mass of solvent, a maximum concentration of 2.0 mg/L may be added. Higher concentration is allowed where copper contamination is suspected.
- Note 3: If conductivity loss is observed, further addition of Stadis 450 is allowed if initial concentration was 3 mg/L Max. and cumulative concentration will not exceed 5 mg/L. If initial concentration is unknown, subsequent addition cannot exceed 2 mg/L.

**Important notice:** That fuel shall not contain any Biodiesel Ester (FAME). A quantity, as low as 5 ppm, is enough to contaminate this product.

**This product meets all standards as specified in ASTM D1655 and in CAN/CGSB-3.23-2009 and subsequent amendments.**