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IRVING OIL LIMITED
REFINING DIVISION-SPECIFICATIONS
JET FUEL
JP 8

Rev: March 2007

SPECIFICATIONS	UNITS	MIN	MAX	METHOD
Color, Saybolt		Report		D156/D6045
Appearance		Bright & Clear		Visual
Aromatics	% VOL		25.0	ASTM D1319
Corrosion, Copper Strip	Class		No.1	ASTM D130
Density at 15°C	Kg/m3	775	840	ASTM D1298 / ASTM D4052
Gravity, API at 60°F		37.0	51.0	ASRM D1298
Distillation – Initial Boiling Point (IBP)	°C	Report		ASTM D86
Distillation – 10% Recovered Point	°C		205	ASTM D86
Distillation – 20% Recovered Point	°C	Report		ASTM D86
Distillation – 50% Recovered Point	°C	Report		ASTM D86
Distillation – 90% Recovered Point	°C	Report		ASTM D86
Distillation – Final Boiling Point (FBP)	°C		300	ASTM D86
Distillation- Residue	% vol.		1.5	ASTM D86
Distillation – Loss	% vol.		1.5	ASTM D86
Flash Point	°C	38(100)		ASTM D56/D3828
Freeze Point	°C		-47	ASTM D2386/D5972
Existent gum, mg/100	mL		7.0	ASTM D381
Combustion Properties:				
Hydrogen Content, mass percent	%Mass	13.4		ASTM D3701 ² , D3343
Smoke Point And	mm	19.0		ASTM D1322
Naphthalenes	% Vol.		3.0	ASTM D1840
Heat of Combustion	MJ/kg	42.8		ASTM D3338/D4809/D4529
Particulate matter	mg/L		1.0	ASTM D2276/D5452
Filtration Time, minutes			15	
Filter Membrane Color Rating Refer Note			3	D5452
Sulphur:				
Mercaptan Sulphur, mass % OR Doctor Test	%Mass		.002 Negative	ASTM D3227 ASTM D4952
Sulphur	%Mass		.30	ASTM D2622/D4294/D4543
THERMAL STABILITY @ 275°C Delivery				
Pressure drop	kPa(mm/Hg)		3.4 (25.0)	ASTM D3241
Preheater Deposit	Code		<3	ASTM D3241
Total Acid Number (TAN)				
Viscosity @-20°C (Viscosity @ -4 °F)	Mg/KOH/g cSt		.015 8	ASTM D3242 ASTM D445
Water Reaction:				
Interface Rating			1b	ASTM D1094
Water Separation	MSEP	90		ASTM D3948
Calculated Cetane Index Refer Note 1			Report	ASTM D976

NOTES:

- 1.Cetane Index –To be reported not limited
- Filter Membrane Colour Rating: This is an airport standard.
- In case of a dispute, MIL-DTL-83133E
- The conductivity must be between 150 and 450 pS/m for F-34 (JP-8).