

Commodity: RUSSIA VIRGIN FUEL OIL D6 Conform to International Standard

1. Delivery: Weekly quantities of 400,000,000 Gallons per Month.
2. Contract: After Spot purchase 12-36 months same amount in weekly bases
3. Tank to Vessel Primosk/ Rotterdam and/or Houston CIF Curacao.

Specifications	Unit	Result	Test method
Density and Relative Density of Crude Oils Average API Gravity	API	29.7 (29.7) (Min)	ASTM D5002
Density 15 Deg C	Kg/t	0.87 (0.8775) (Max)	ASTM D1298-99
Pour Point of Petroleum Products			
Pour Point	°C	< -33 (-36) BELOW ZERO	ASTM D97
Pour Point	°F	< -27.4 (-32.8) BELOW ZERO	
Pensky-Martens Closed Cup Flash Point Corrected Flash Point	°F	117 (137) (MIN)	ASTM D93-IP34
Sulfur Content in Petroleum Products by EDXRF Sulfur Content	wt%	0.38 (0.358) (MAX)	ASTM D4294
Kinematic/Dynamic Viscosity Kinematic Viscosity 122°F / 50°C	mm 2/S	17.83 (18.12) (MAX)	ASTM D445
Water Content by Coulometric Karl Fisher Titration Water Content	wt%	0.20 (0.7) (MAX)	ASTM D6304
Ash from Petroleum Products Average Ash	wt%	0.279 Ash (1.007) (MAX)	ASTM D482
Conversion of Kinematic Viscosity To SUS/SFS 1Saybolt furoi viscosity 122°F	(MAX)	10.9SFS	ASTM D2161
Aluminum and Silicon in Fuel Oils by ICP- AES or AAS Aluminum Content	mg/kg	102 (MAX)	ASTM D5184
Silicon Content	mg/kg	93 (MAX)	
Water by Distillation, Vol%	Vol%	0.70 (MAX)	ASTM D95
Carbon Residue	wt%	1.11 (MAX)	ASTM D4530.06
Method Test Result Units			
IP 143 Asphltteness Heptane Insolubles			
Asphaltene Content	wt%	0.08	
IP 501 Determination of AL,Si,V,Ni,Fe,Na,Ca,Zn,P in Fuel Oil-ICPES			

Commodity: DIESEL GAS D2 OIL GOST 305-82 Conform to International Standard

1. Delivery: Weekly quantities of 50,000 Metric Tons per Month.
 2. Contract: After Spot purchase, 12-36 months same amount in weekly bases
- Destination: Tank to Vessel Primosk/ Rotterdam and/or Houston CIF Curacao.

RUSSIAN D2 GAS OIL L0.2 - 62, GOST 305-82			
Component	Unit	Min.	Max.
Density@ 20 deg C	Kg/m3	0	0,870
Colour			2,0
Flash point, PMCC	deg C (°C)	57	62
Kinematic viscosity @20 deg C	CST	3,0	6,0
Pour point	deg C (°C)	(*)	-10,0
Cloud point	deg C (°C)	(*)	-5,0
Mercaptan sulphur			0,004
Acidity, mg / 1000 cm3			5
Iodine number	g/100g		6
Ash	%wt		0,01
Total Sulphur	%wt	0,005	0,02
Copper corrosion	3hours@ 50 deg C	(typical)	1 A
CCR on 10% Residues	%wt		0.20
Cetane index		45	
Distillation range:			
- 50% Recovered Volume	deg C (°C)		280
- 90% Recovered Volume	deg C (°C)		360
- Bacteria MBC	Fibred / it		500
- Bacteria CFU	Fibred / it		1000

Commodity: JET FUEL A1 – AVIATION TURBINE KEROSENE Conform to International Standard

1. Delivery: Weekly quantities of 1,500,000 Barrels per Month.
2. Contract: After Spot purchase 12-36 months same amount in weekly bases
3. Tank to Vessel Primosk/ Rotterdam and/or Houston CIF Curacao.

Specification: Aviation Turbine Fuel (Jet A1)				
1	Appearance			
1.1	Visual Appearance	Clear & Bright, free from solid matter & undissolved water at ambient temperature		Clear & Bright
1.2	Color	Report	ASTM D 156 or ASTM D 6054	25
1.3	Particulate Contamination, at point of manufacture, mg/l	1.0 Max.	IP 423 / ASTM D 5425	0.80
1.4	Particulate, at point of manufacture			
1.4.1	≥ 4 µm(c)	Report	IP 564 or IP 565	2500
1.4.2	≥ 6 µm(c)	Report		950
1.4.3	≥ 14 µm(c)	Report		99
1.4.4	≥ 21 µm(c)	Report		22
1.4.5	≥ 25 µm(c)	Report		15
1.4.6	≥ 30 µm(c)	Report		10
2	Composition			
2.1	Total Acidity, mg KOH/gm	0.015 Max.	ASTM D 3242	0.009
2.2	Aromatic Hydrocarbon Types			
2.2.1 or	Aromatics % v/v	25 Max.	IP 156 /ASTM D 1319	18.5
2.2.2	Total Aromatics % v/v	26.5 Max.	IP 436 /ASTM D 6379	18.5
2.3	Sulphur, Total % m/m	0.3 Max.	ASTM D 4294	0.25
	Sulphur Mercaptan % m/m	0.003 Max.	ASTM D 3227	0.0020
2.4 Or	Doctor Test	Doctor negative	IP 30	
2.5				
2.6	Refining Component, at the Point of manufacture			
2.6.1	1. Hydro processed component, % v/v	Report		
2.6.2	2. Severely Hydro processed component, % v/v	Report		
3	Volatility			
3.1	Distillation – IBP °C,	-	ASTM D 86	155
	Fuel recovered 10% by volume at °C	205 Max.	-	171
	Fuel recovered 50% by volume at °C	Report	-	195
	Fuel recovered 90% by volume at °C	Report	-	195
	Final boiling point °C	300 Max.	-	254
	Residue % volume	1.5 Max.	-	1.0
	Loss % volume	1.5 Max.	-	1.0
3.2	Flash point °C	38 min	IP 170	42
3.3	Density @ 15 °C kg/m ³	Min 775.0 Max.840.0	IP 365/ ASTM D 4052	799
4	Fluidity			
4.1	Freezing point, °C	Minus 47 Max.	IP16/ ASTM D 2386	Minus 52
4.2	Kin. Viscosity at minus 20 °C, mm ² /s	8.00 Max.	IP 71/ ASTM D 445	4.10
5	Combustion			
5.1	Smoke Point, mm or	25 Min	ASTM D 1322/IP 57	24
	Smoke Point	19 Min	ASTM D 1322/IP 57	
	And Naphtalene, % vol.	3 Max.	ASTM 1840	2.3
5.2	Specific Energy MJ/kg, Min	42.8	Annex C	43.27
6	Corrosion			
6.1	Cu strip for 2 hours @ 100 °C	Not worse than No. 1	ASTM D 130	No.1
7	Thermal Stability, JFTOT			
7.1	Thermal Stability, JFTOT		IP 323 / ASTM D 3241	
	Test Temperature, °C	Min 260		
7.2	Tube rating, visual	Less than 3 (no peacock) or abnormal colour		Zero, no peacock

Commodity: RUSSIAN AVIATION KEROSENE COLONIAL GRADE JP54 Conform to International Standard

1. Delivery: Weekly quantities of 1,500,000 Barrels per Month.
2. Contract: After Spot purchase 12-36 months same amount in weekly bases
3. Tank to Vessel Primosk/ Rotterdam and/or Houston CIF Curacao.

Specification: Aviation Kerosene JP54					
PROPERTIES	UNIT	RESULT	TEST- IP	METHOD	ASTM
ADDITIVES					
Antioxidant in hydro processed fuel	Mg/l	Min / Max	17 / 24		
Antioxidant non hydro processed fuel	Mg/l	Max	24		
Static dissipater first doping ASA-3	Mg/l	Max	1		
Stadis 450	Mg/l	Max	3		
COMBUSTION PROPERTIES					
Specific energy, net	mj/lkg	Min	18.4		D4808
Smoke point	Mm	Max	19		D1322
Luminomitter number		Max	45		D1740
Naphthalenes	% volume	Max	3		D1840
COMPOSITION					
Total Acidity	Mg KOH/g	Max	0.01	354	D3242
Aromatics	% vol	Max	22.0	158	D1318
Sulphur, Total	% mass	Max	0.30	107	D1266/2622
Sulphur, Mercaptan	% mass	Max	0.003	342	D3227
Doctor, test				30	D4952
VOLATILITY					
Initial Boiling Point	Centigrade	Max	Report	123	D96
10% vol at C			240		
20% vol at C			Report		
50% vol at C			Report		
80% vol at C			Report		
End point	Centigrade	Max	300		
Recovered residuals	% vol	Max	1.5		
Loss	% vol	Max	1.5		
Flash Point	Centigrade	Max	42	170/303	D56/3828
Density at 15 C	Kg/m2	Min / Max	776 / 840	180/305	D1256
LOW TEMPERATURE					
Freezing Point	Centigrade	Max	-40	15	D2256
CORROSION					
Corrosion, copper (2hrs at 100C)		Max	1	154	D130
Corrosion, silver (4hrs at 50C)		Max	1	227	
STABILITY					
Thermalstability control, Temp. 280C					
Filter pressure, differential mm.Hg		Max	25	323	
Tube deposit rating (visual)		Max	< 3		
CONTAMINATIONS					
Existent Gum	Mg/100ml	Max	7	131	D361
Water reaction, interface rating		Max	16	258	D1084
Fuel with static dissipater additives		Min	75		D3648
Fuel without static dissipater additive		Min	85		
CONDUCTIVITY					
Eletrical conductivity	p ³ /m		Report		