JRV International Trading S.A.
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OIL PRODUCTS

PRODUCT	QUANTITIES AND CONDITIONS
NAVAL D6	200 to 400 million gallons 500 to 800 million gallons
NAVAL D2	200,000 to 500,000 metric tons
GASOIL EN590	100,000 to 300,000 metric tons 500,000 to 1,000,000 metric tons
JET A1 D -1655	500,000 BBL units
JET FUEL GRADO 54 KEROSENE COLONIAL	1,000,000 to 5,000,000 BBL units
LPG NATURAL GAS	20,000 to 500,000 metric tons
COKE	300,000 to 500,000 metric tons 500,000 to 1,000,000 metric tons
BUNKER	20,000 to 50,000 metric tons 100,000 to 500,000 metric tons
CRUDE OIL GOST 9965-76	500,000 to 10,000,000 BBL units
RUSSIAN ORIGEN LCO	20,000 to 500,000 metric tons
FUEL OIL CST – 180	20,000 to 500,000 metric tons
UREA 46 % GRANULADA	30,000 to 50,000 metric tons 100,000 to 500,000 metric tons

***Prices and procedures: on demand**

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FUEL OIL CST 180 - DATASHEET

CHARACTERISTICS	UNIT	SPECIFICATION	TEST METHOD
Density at 15°C	Kg/m³	Max 991	ISO 3675 or ISO 12185
Kinematic Viscosity at 50°C	Mm²/S	Max 180	ISO 3104
Flash Point	°C	Min 60	ISO 2719
Pour Point (upper) (2)			
Winter Quality	°C	Max 30	ISO 3016
Summer Quality	°C	Max 30	ISO 3016
Carbon residue	%(m/m)	Max 15	ISO 10370
Ash	%(m/m)	Max 0.10	ISO 6245
Water	%(V/V)	Max 0.50	ISO 3733
Sulphur	%(m/m)	Max 3.5	ISO 8754
Vanadium	mg/kg	Max 200	IP501 / IP470 / ISO14579
Aluminum + silicon	mg/kg	Max 80	IP501 / IP470 / ISO10478
Total sediment potential	%(m/m)	Max 0.10	ISO1 0307-2

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LPG - NATURAL GAS – DATASHEET

FICHA TÉCNICA
APROBADA

CARACTERÍSTICAS GENERALES DEL BIEN

Denominación del Bien	: GAS LICUADO DE PETRÓLEO
Denominación Técnica	: GAS LICUADO DE PETRÓLEO
Unidad de medida	: A GRANEL Y EN RECIPIENTES PORTÁTILES
Descripción General	: GAS LICUADO DE PETRÓLEO

CATÁLOGO ÚNICO DE BIENES, SERVICIOS Y OBRAS - CUBSO

Segmento/Familia/Clase/Commodity	: Combustibles, aditivos para combustibles, lubricantes y materiales anticorrosivos/ Combustibles gaseosos y aditivos/ Combustibles gaseosos/ Gas de petróleo licuefactado
Ítem	: GAS LICUADO DE PETROLEO
Código	: 1511151000012024

CARACTERÍSTICAS TÉCNICAS DEL BIEN

A. CARACTERÍSTICAS

A.1. Características del Producto

El Gas Licuado de Petróleo (GLP), es una mezcla de hidrocarburos volátiles, conformados principalmente por propano, propileno, butano, iso-butano, butileno, obtenidos de los líquidos del gas natural o de gases de refinería, los cuales pueden ser almacenados y manipulados como líquidos por aplicación de una presión moderada a temperatura ambiente y/o descenso de temperatura. El GLP proveniente de los gases de refinería contiene cantidades variables de propileno y butilenos.

Se emplea el Gas Licuado de Petróleo (GLP) para uso doméstico, comercial e industrial; exceptuándose aquellos usados como combustibles en motores de combustión interna y los requeridos con características especiales para el comercio o la industria, que se comercializan mediante acuerdo del usuario y el proveedor.

El Gas Licuado de Petróleo, debe cumplir con las especificaciones, que se efectúan de acuerdo a los métodos de ensayo establecidos en la NTP 321.007– Gas Licuado de Petróleo (GLP). Requisitos.

Además, presenta las siguientes características:

- **Olor:** El olor del GLP debe ser característico (desagradable). El GLP deberá contener odorantes que permitan detectar por el olfato la presencia de éste, cuando la concentración del GLP sea la quinta parte del límite inferior de inflamabilidad correspondiente al componente con el límite más bajo.

- **Proporción de odorante:** La proporción del odorante en los gases licuados de petróleo deberá ser la siguiente: Etil o metil-mercaptano: 12 g/m3 a 17 g/m3 (14 ppm a 20 ppm), [0,45 kg por 37,9 m3 en GLP líquido (1 lb. por 10000 gal)] de acuerdo a la NTP 321.007.

A.2. Clasificación

Los gases licuados de petróleo se clasifican en tres grupos, según su composición:

1. **Propano Comercial.-** Es un combustible que se compone de propano y propileno según su fuente de origen y posee elevada volatilidad. Su uso es recomendable cuando las temperaturas son bajas.

2. **Butano Comercial.-** Es un combustible que se compone de butano, iso-butano y butileno según su fuente de origen y posee baja volatilidad. Su uso es recomendable cuando las temperaturas ambientales son altas.

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GAS OIL EN590 - DATASHEET

Cetane number MM.	45
Distillation deg C 50% max.	280
96% (final boiling point) max.	360
Kinematic viscosity @20 deg C mm^2/c, (cst)	3.0 – 6.0
Sulphur % min/max	0.02 – 0.05
Mercaptan Sulphur %	0.01
Hydrogen Sulphid	Abs.
Cooper strip test	Passes
Water soluble acids and alkalis	Abs.
Actual gum content, mg/100cm^3, max	40
Acidity, mg/1000cm^3 of gasoil, max	5
Iodine numbers. g/100g, max	6
Ash % max	0.01
Cokability of 10% residue, max %	0.20
Filtration coefficient max	3
Sediments	Abs.
Water	Abs.
Density at 20deg C, kg/m^3, max	860
Flash point (closed cup) deg C mm	62
Pour point from March to October (summer) deg C, max	-5
Pour point from November to February (winter) deg C, max	-10
Cloud point from March to October (summer) deg C, max	0
Cloud point from November to February (winter) deg C, max	-5

This product is guaranteed by the Seller not to contain bacteria and other microorganism contamination above normal level (1000 CFU/L).

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AVIATION QUEROSENE JET A1 SPECIFICATION (RUSSIAN)

Jet A Jet A1 Acidity, mg KOH/g	0.10 Max
Aromatics, Vol %	25 Max
Mercaptan Sulphur, Wt %	0.003 Max
10% Distillation °C	205 Max
Final Boiling Point °C	300 Max
Distillation Residue, %	1.5 Max
Distillation Loss, %	1.5 Max
Flash Point, °C	38 Min
Density @ 15°C kg/m³	775/840
Freeze Point °C	-40 Max
Viscosity @ -20 °C. mm/s	8.0 Max
Net Heat of Combustion MJ/kg	42.8 Min
One of the following shall be met	
Smoke point. Mm or	25 Min
Naphthalenes, % Vol	3.0 Max
Cooper strip corrosion 2h %	No. 1
100°C Thermal Stability	
Filter pressure drop, mm HG	25 Max
Tube deposits	<3 Max
Existent Gum, mg/100ml	7 Max
Water reaction, interface	1b Max
MSEP Rating	
Without electrical conductivity additive	85
With electrical conductivity additive	70
Electrical conductivity, pS/m	50 Min 600 Max

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D6 VIRGIN FUEL OIL (Russian)

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 Pour Point	°C °F	< -33 (-36) BELOW ZERO < -27.4 (-32.8) BELOW ZERO	ASTM D97
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 (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 Silicon Content	mg/kg mg/kg	102 (MAX) 93 (MAX)	ASTM D5184
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 Asphlteness Heptane Insolubles			
Asphaltene Content	wt%	0.08	
IP 501 Determination of AL,Si,V,Ni,Fe,Na,Ca,Zn,P in Fuel Oil-ICPES			
Aluminium	mg/kg	372	
Silicon	mg/kg	187	
Sodium	mg/kg	117	
Vanadium	mg/kg	1	
Calcium	mg/kg	779	
Zinc	mg/kg	298	
Phosphorus	mg/kg	4176	
Iron	mg/kg	545	

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FUEL NAVAL OIL D2 (500 PPM) - DATASHEET

PROPERTY	SPECIFICATION	TEST METHOD
Flash point °C	Min 57	ASTM D93
Distillation 50% recovered, °C 90% recovered, °C 95% recovered, °C	 Max 300 Max 355 Max 370	ASTM D86
Kinematic Viscosity at 40°C, mm^2/s	1.9 - 4.1	ASTM D445 / D7042
Ash, % mass	Max 0.01	ASTM D482
Aromatic content, % Vol	Max 35	ASTM D1319
Sulfur content, % mass	Mas 0.05	ASTM D2622 / D5453
Copper strip corrosion rating (3h at a minimum control temperature)	Max No 1	ASTM D130
Cetane index	Min 45	ASTM D976 / D4737
Cloud point, °C	Max 12	ASTM D2500
Ramsbottom carbon residue on 10% distillation residue, % mass	Max 0.3	ASTM D524
Color	Max 3.0	ASTM D1500
Water, % mass	Max 0.05	ASTM D95
Density (15°C) kg/m^3	Report	ASTM D1298 / D4052
Lubricity HFRR @ 60°C, micron	Max 520	ASTM D6079

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UREA 46% - DATASHEET

CARACTERISTICAS FISICAS Y QUIMICAS

Nombre Químico: Carbamida
Otros Nombres: Urea, Carbonildiamida, Ácido Carbomídico ó Amida Alifática
Fórmula Química: CO(NH2) 2
Peso Molecular (g/mol): 60.06

Contenido de Nitrógeno Total (N): 46 % de Nitrógeno Uréico (w/w)

Presentación Física:	Perlas o Perdigones Esféricos, color blanco.
Tamaño de partícula:	0.85 a 3.35 mm
Solubilidad en agua, a 20° C (100 g/100 ml):	100 g/100 ml. de agua
pH en solución al 10%:	7.5-10.0 Unidades
Densidad Aparente (Kg/m3):	770 - 809 Kg/m3
Índice de Salinidad:	75.4
Humedad Relativa Crítica (a 30° C):	73%
Acidez equivalente a Carbonato de Calcio:	84 partes de Carbonato de Calcio por 100 de Urea.

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CRUDE OIL GOST 9965-76 – DATASHEET

Russian Export Blend Crude Oil

- Commodity: REBCO [GOST 9965-76]
- Origin: Russia
- Quantity: up to 2 Mio bbl. per month
- Price: on three (3) days average Platt's Crude Oil Marketwire, under the heading:
  - "URALS (EX-NOVO)" for delivery FOB Black sea port
  - "URALS (EX-BALTIC)" for delivery FOB Baltic sea port
- Payment: Documentary Letter of Credit for monthly shipment value to revolve to the end of the contract (irrevocable, non-transferable, revolving L/C at sight) From Top 25 Prime banks in favour of seller
- Delivery: FOB Black Sea / Baltic Sea
- Inspection: By SGS or recognized surveyor.

Specification

№	DESCRITION	VALUE
1	Density at 20 °C gr/sm^3, max	0, 870
2.	Sulfur content, %, max	1,8
3.	Paraffin content, %, max	6,0
4.	Water and sediments content, %, max	0,1
5.	Distillation, % recovered	at 200 °C min 21.0 at 300 °C min 41.0 at 350 °C min 50.0
6.	Chlorine salts content, mg/dm^3, max	100
7.	Density deg API at 60 °F, min	32,0
8.	Salt content (NaCl), mg/L	17,3
9.	Ash content, % max	0,05
10.	Mercaptans, mg/kg	< 1
11.	Pour Point, degr.C	15
12.	Kinematic viscosity, deg. 20C, cst	4,92
13.	Hydrogen Sulfide, mg/kg	<1
14.	Nitrogen, mg/l	342
15.	KOH Number, mg/g	0,39

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RUSSIAN CRUDE OIL (ESPO) – DATASHEET

Product Information Sheet

Standard Specification of Eastern Siberian Pacific Pipeline Oil (ESPO)

SPECIFICATION RUSSIAN CRUDE OIL (ESPO)

No.	Test	Method	Unit	Result
1	Density At 15°C	ASTM D 1298	Kg/L	0.8508
2	API Gravity	-	-	34
3	Kinematic Viscosity at 20°C	ASTM D 445	cst	6.949
4	Sulphur	ASTM D 4294	Mass %	0.535
5	Pour Point	ASTM D 97	°C	<=-36
6	RVPE	ASTM D 5191	kPa	40.4
7	Hydrogen Sulphide	UOP 163	ppm	<1
8	Vanadium	ASTM D 5863	ppm	4
9	Nickel	ASTM D 5863	ppm	4
10	Iron	ASTM D 5863	ppm	19
11	Calcium	ASTM D 5863	ppm	2
12	Sodium	ASTM D 5863	ppm	1
13	Copper	ASTM D 5863	ppm	<1
14	Water	ASTM D 4006	Vol%	0.35
15	Paraffin Wax Content	UOP 46	Mass %	3.3
16	TBP Distillation,	ASTM D 5236	Vol%	Cutting
	Boiling range Of FRAC.@ 760mmHg °C			Range
	LPG			2.2
	C5-65			6.1
	65-100			9.8
	100-150			16.7
	150-200			25.1
	200-250			32.7
	250-300			42.0
	300-350			50.9
	350-370			54.2
	370-475			70.0
	475-515			74.6
	515-525			76.0
	525-553			79.9

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WTI CRUDE OIL – DATASHEET

SPECIFICATION OF WTI CRUDE OIL

PRODUCT PROPERTIES	METHODS	RESULTS
Iron, PPM	AAS	226
Nickel, PPM	AAS	2.4
Vanadium, PPM	AAS	4.8
Sodium, PPM	AAS	42
Gravity, API @ 60° F.	D 4052	38.5
Organic Chlorides, ppm	D 4929	4.7
Water by Dist., vol.%	D 95	0.4
Sediment by Extraction, Wt%	D 473	0.26
Sulfur, wt.%	D 4294	0.2993
Distillation °F., Mass %	D 7169	–
		I.B.P. <97 ° 1% 154.64 ° 2% 173.64 ° 3% 197.34 ° 4% 213.93 ° 5% 241.64 ° 10% 276.31 ° 15% 289.93 ° 20% 322.42 ° 25% 366.74 ° 30% 419.20 ° 35% 455.84 ° 40% 494.06 ° 45% 524.43 ° 50% 546.30 ° 55% 568.75 ° 60% 594.60 ° 65% 620.66 ° 70% 669.01 ° 75% 733.18 ° 80% 815.68 ° 85% 900.70 ° 90% 989.46 ° 95% 1106.50 ° % Recovery @ 1020 F 91.50 ° % 1020 F + Residue 9.50 °
DHA, Vol. %	D 6730	**400 Cut 38% OH** Paraffins 42.93 ° Olefins 4.49 ° Naphthenes 26.31 ° Aromatics 15.36 ° C14+ 4.78 ° Unknown 6.13 ° Ethane <0.01 ° Propane 0.06 ° Iso Butane 0.15 ° N Butane 0.72 ° Iso Pentane 1.63 ° N Pentane 2.07 ° 2-2 Dimethylpropane 0.09 ° Cyclopentane 0.19 ° Total C2-C5 5.00 °

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FOB (FREE ON BOARD) PROCEDURE:

1. Buyer issues ICPO to Seller along with company profile, registration and passport copy of a director (in charge).

2. Seller issues Commercial Invoice (CI) to Buyer. Buyer signs the CI returns it to Seller along with Buyer's Tank Storage Agreement (TSA), NCNDA and IMFPA.

3. Seller issues ATSC or commitment to supply to Buyer.

4. Buyer provides to Seller with (2-5) days previous activated TSR (Tank Storage Receipt) for Seller's approval from concerned storage company.

5. Seller pays Buyer tank farm to insert s Seller's' name to Buyer's TSR (Tank Storage Receipt). If Buyer doesn't possess previous activated TSR, then seller pays (2-5) days to Buyer's tank farm to confirm injection readiness towards the transaction.

6. Buyer contacts its nominated tank farm to provide Confidential Agreement Seller (with IMDG Code) in conformity of safety allowance and readiness to receive the product at its prepared storage tanks.

7. Seller releases to Buyer and Buyer tank storage company the injection schedule along with the notice of readiness (N.R) to commence injection of product to buyer's tank.

8. Seller issues full POP to buyer via email as typically consisting of:
a. Fresh SGS report (loading port);
b. Unconditional Dip Test Authorization (UDTA);
c. TSR (in Rotterdam) & BL (reference copy);
d. Certificate of Origin;
e. Import & Export permits (by Russian Energy's Ministry);
f. Statement of Product availability;
g. Title holder Certificate.

9. Buyer if requires Dip Test upon satisfactory result, Buyer makes 100% payment via MT103/TT within 48 hours, Seller transfers ownership title to buyer.

10. Seller pays all intermediaries involved in the transaction, upon successful lift, monthly extended shipments continue as per terms and conditions of the sales and purchase agreement contract between buyer and Seller.