JBS GLOBAL HOLDINGS

Think Human

http://adam-kim.en.ecplaza.net

Corporate Overview

JBS GLOBAL HOLDINGS will continue to contribute towards creating a better world through open, honest communication between the customers and the company. We will excel not only in product innovation but also in providing high value-added services. Finally, as a responsible international raw materials provider, we promise to fullf ll our corporate social responsibility and grow into the most respected company in the world wide industry.

Company Name : JBS GLOBAL HOLDINGS (KOREA / HONG KONG)
President : Adam T.S Kim(Mr. Tae-Seog, Kim)
Address : 6F, Samsung-Michelan 107, Samsung-doing, Gangnam-gu, Seoul, Korea (06083)
Tel : (+82)1058103652 / jbsglobalholdings@gmail.com
Main Business : Resources & Energy / Rare metals / AU gold / Wealth trust management /
Establish Date : 7 MAY 1999.
Registration : Registered as a corporation.
Website : http://adam-kim.en.ecplaza.net

Vision

JBS GLOBAL HOLDINGS KR
JBS GLOBAL HOLDINGS HK

Grand Vision	Our vision is to be a global business organizer with the highest level of corporate competitiveness
Customer Vision	To grow together with our customers as a business partners by bringing greater satisfaction, reliability and inspiration to our customers around the world.
Business Vision	To build a sustainable business portfolio by enhancing our core competence in international trading activities, and through the development of future promising projects.
Growth Vision	Our goal is to exceed total sales of 700 billion USD with an ordinary income of 210 billion USD by until the year 2030.
Staff Vision	To encourage our staff members to fulf ll their personal and professional goals by providing a stimulating work environment and superior reward programs.

CEO's message

JBS GLOBAL HOLDINGS has established in MAY 1999. And has major business portfolio in Energy, Raw material, and the distribution of international raw material products. Company planning to implement the expansion of Wealth trust management business & service, and the strengthening of Global Network.

Our company is the leading trader and actively doing business in international raw materials market, locate in the capital city of Seoul South Korea. We are appointed trader to act/sell/buy raw material commodity. We would like to thank you for the persistent interest you have shown in the past and hope for the continuous support to move forward as we plan for along-term growth with us.

The customers' concerns are the top priority for us, and we are always open for any suggestions or comments to improve our partnership These efforts will result in the creation of new value for our customers, and I, along with all the personnel at JBS GLOBAL HOLDINGS KOREA will strive for the continuous relationship and joint growth for both our customers and JBS GOLBAL HOLDINGS.

CEO Adam Kim(Mr.**Tae-Seog, Kim**)

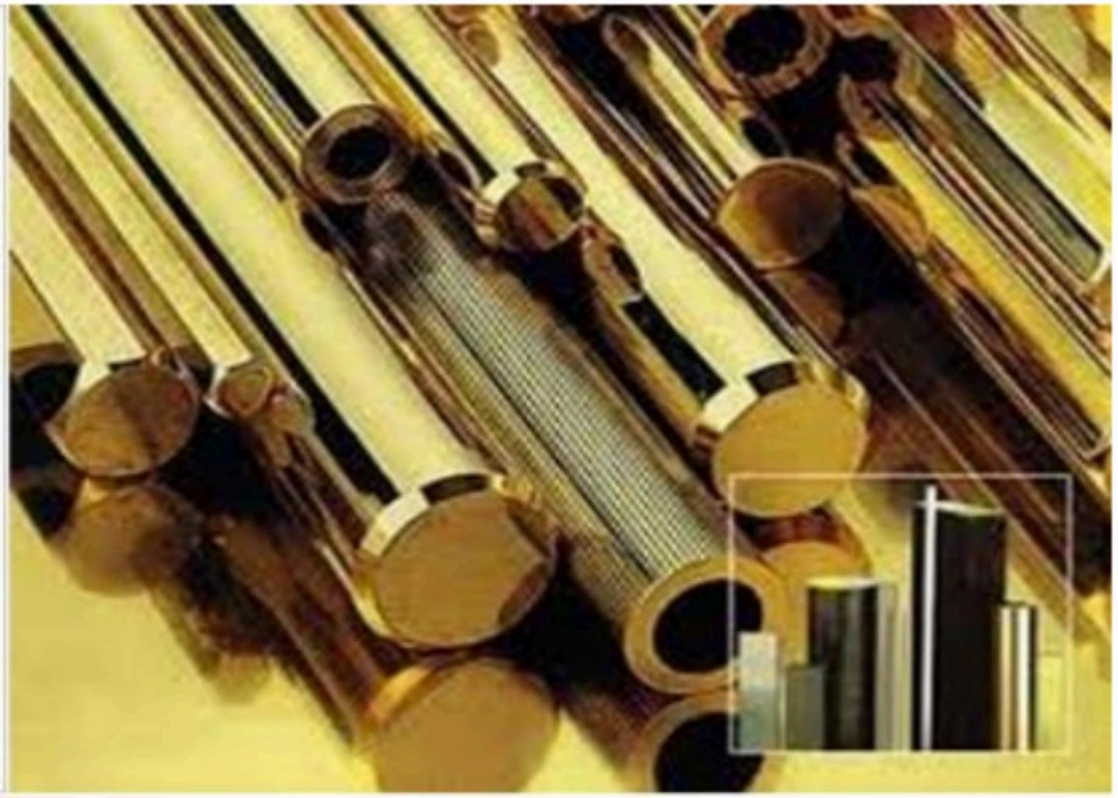
[GOLD AU TRADING]
Brinks Global Korea Registed Code
"JBSGLOBA0001"

We JBS GLOBAL HOLDINGS, from 2008 to the present, we have been actively promoting the trade of semi-refined gold from Africa as our core business.

Resource Trading - Iron ore / Coal

JBS GLOBAL HOLDINGS has been role in the Korean energy industry under the strong support from reliable world wide major suppilers.
We becomes an exclusive sales agent of Asia, America, Europe region in December, 2012 on behalf several major suppilers. that estimated reserves to ensurestable supply to customers.

Non-ferrous Metals Materials



JBS GLOBAL HOLDINGS actively launched trading business of Non-ferrous metals with the trustworthy sources in China, Indonesia, South America, South Africa etc.

JBS GLOBAL HOLDINGS KOREA step by step build up references through successful delivery to customers.

Import & Export of Oil Product

JBS GLOBAL HOLDINGS has expanded business area to Mazut(M100), D2, Euro2M, Bitumen, LPG with the strong support of reliable suppliers from Russia, Malaysia, UAE, Indonesia, Iran, Australia, etc.

JBS GLOBAL HOLDINGS KOREA has strengthened the leading position in the energy industry through strong alliances around the world.

Electrolytic Copper

CNPC brand, high quality
Cu: 99.7 A d 1.2-2.5 g/cm3,

APPLICATION

Widely used in diamond tools, carbon brushes, friction materials, P/M products and abrasive materials, pastes, electrical and electronic applications.

CHEMICAL COMPONENT %			
Cu		= 99.7	
Pb	< 0.005	O	< 0.15
S	< 0.004	Fe	< 0.020
Zn	< 0.004	Ni	< 0.003
Sn	<0.004	H 2 O	< 0.055
Hydrogen loss	<0.15	Acid insoluble	< 0.05

Aluminum Ingot

Product Description

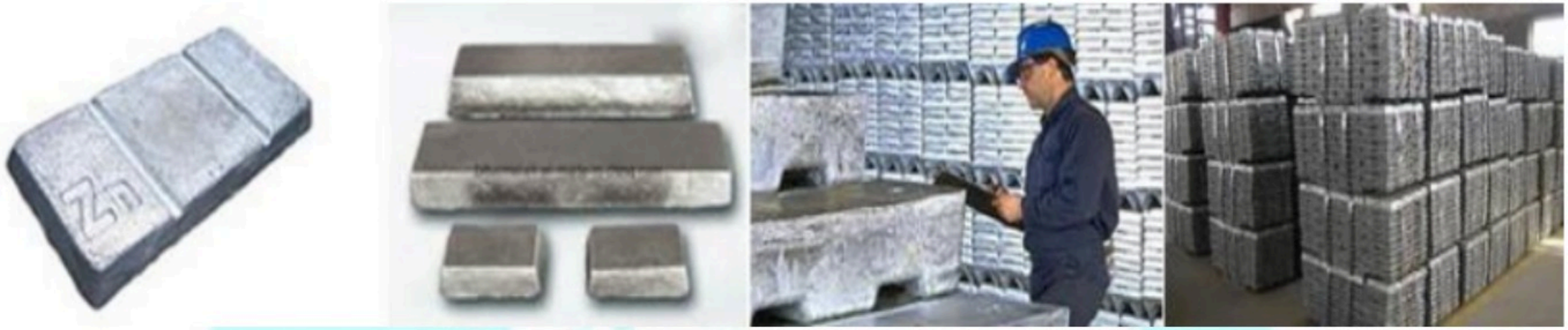
Pure Aluminum Ingot 99.7% Chemical Composition: Al Weight: 20/25kg Al (Min): 99%-99.9%
Place of Origin: China
Appearance: Silvery white
Aluminum ingot for re melting is produced by molten salt electrolysis method using alumina and cryolite. Products meet the national standard GB/T1196-2002. The surface of ingot is clean and smooth.

Applications:

1. Mainly used for melting ingot
2. Discontinuous melting with scrap
3. Easy control and operation
4. Fast melting
5. Used for industry such as automobile, pinning and weaving, electron broadly and soon

Packaging & Delivery: Packing: About 25Kg /Ingot, Packed in wooden case, Net weight 1000Kg/ Case, or as customer's requirements.
Delivery: Within 25 days after receive your deposit in advance.

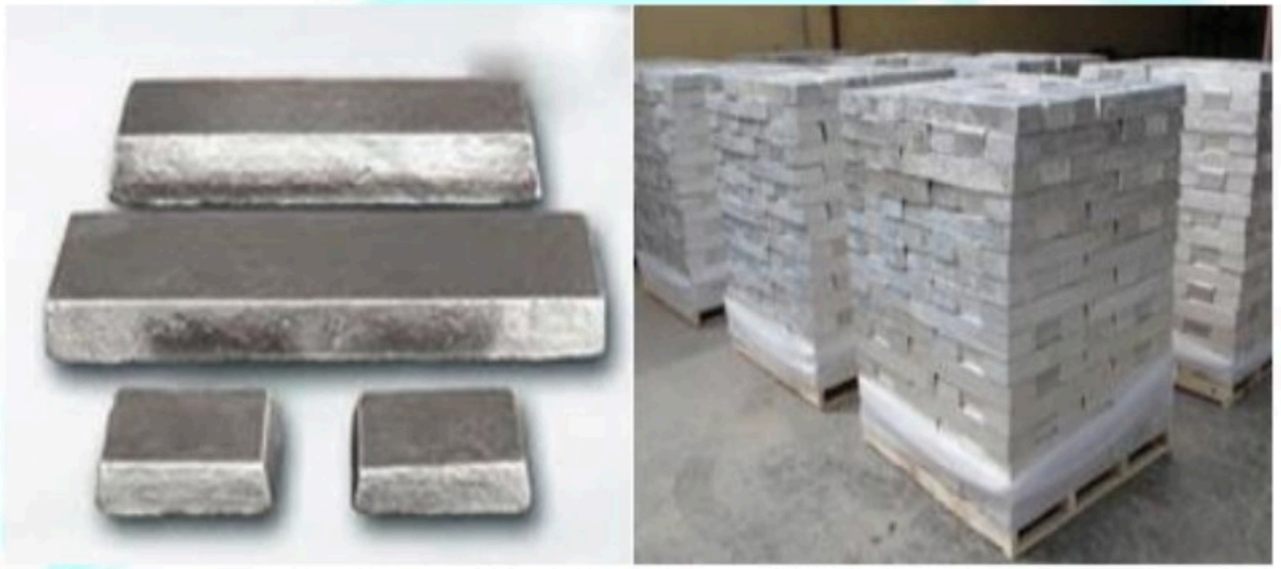
Zinc Ingots



Refined Zinc or Zinc Ingot
Zn (purity): 98.7%-99.995% Molecular Formula: Zn Molecular Weight: 65.39 Density: 7.14(g/cm3)
M. P.: 419.58 B. P.: 907 Molecular Weight: 65.39 Alloy Or Not: Non-alloy
Secondary Or Not: Non-secondary
Appearance: Silver white lustrous metal; Can react with acids, soluble in alkaline solution

Usage:
1. Mainly used for die-casting alloy battery industry
2. Widely used in Painting/ Printing/Dyeing/pharmaceutical/rubber industry etc
3. Chemical industries, zinc and other metal alloy plating coating industry
4. In zinc plating, manufacture of brass, manganese bronze, galvanized iron, dry battery; As catalyst and reducing agent

Magnesium Ingot



Ingot weight: 15kgs, 7.5kgs, 1kg, 300g Free from oxidation

Surface: By acid washand no oxidized (as per request)

Application of Magnesium

The four principal uses of magnesium in the industry are:

a) Alloying with aluminum - 40 - 45 percent

b) As a structural metal indie casting - magnesium alloys - 33 - 35 percent

c) Iron and steel processing - desulfurization - 13 percent

d) Rare-earth alloy, Metal reduction and others

Euro2M

PROPERTIES	GUARANTEED LEVEL		TEST METHOD
	MINIMUM	MAXIMUM	
Colour (ASTM)	-	2.5	MS 2010 / ASTM D1500 / D6045
Ash, mass %	-	0.01	MS 2013 / ASTM D482
Cloud point, °C	-	19.0	ASTM D2500 / D5772
Flash point, °C	60	-	MS 686 / ASTM D93
Kinematic viscosity at 40°C, mm² / s	1.5	5.8	MS 1831 / ASTM D445
Copper corrosion (3 h at 100°C)	-	1	MS 787 / ASTM D130
Water by distillation, vol %	-	0.05	MS 1800 / ASTM D6304 / D95
Sediment by extraction, wt%	-	0.01	MS 790 / ASTM D473
Carbon residue on 10% bottoms, wt%	-	0.20	MS 962 / ASTM D189 / D4530
Density at 15°C, kg/L	0.810	0.870	MS 1893 / ASTM D1298 / D4052
Acid number, mgKOH/g	-	0.25	MS 2011 /ASTM D664 / D974 / D2624
Electrical conductivity, pS/m	50	-	MS 1889 / ASTM D2624
Cetane index or Cetane number	49 49	- -	MS 1890 / ASTM D976 / D4737 MS 1895 / D613 / D6890 / IP498
Physical distillation at 95% recovered volume, °C or Simulated distillation at 95% recovered mass, °C	- -	370 399	MS 563 ASTM D2887 / D86
Total sulphur, mg/kg	-	500	MS 1891 / ASTM D4294 / D2622 / D5453 / D7039 / D5950
Lubricity, µm	-	460	MS 1892 / ASTM D6079

APPLICATION	PRECAUTION	SPECIFICATION
For Self-Ignition compression diesel engine. PETRONAS Diesel is a high cetane index fuel designed for use in low and high speed self-ignition compression engines to provide efficient, dependable and smooth operation. It has the proper viscosity suitable for critical fuel injection systems to provide maximum protection against wear and leakage. Also suitable for industrial purpose especially for direct burning ie. boiler, furnace, dryer, etc.	• May release Hydrogen Sulfide (H2S) gas which may be fatal if • Combustible Hydrogen Sulfide (H2S) gas may cause irritation • Prolonged or repeated skin • If swallowed, DO NOT induces vomiting. May cause chemical pneumonitis.	This diesel meets the following specification: • SIRIM MS 123:2005 (AMD. 1) 3rd Revision Diesel fuel may contain up to 5% (v/v) of Palm Methyl Ester (PME) complying with SIRIM MS 2008 and EN 14214

Revision: March 2011

HSD (High Speed Diesel/D2)

PROPERTIES	RESULT	UNIT	SPEC	METHOD
Density @ 15°C	0.8443	Kg/L	REPORT	ASTM D 4052-96
	-	Kg/L	REPORT	ASTM D 1298-99
Color	2.0	-	25 MAX	ASTM D 1300-98
Distilation @ 90% Recovered	365.7	°C	370 MAX	ASTM D 86-00a
Kinematic Viscosity @ 40°C	4.0	cSt	1.5-5.8	ASTM D 445-97
Sulphur	-	wt%	0.2-0.4 MAX	ASTM D 2622-98
	0.3	wt%	0.3 MAX	ASTM D 4294-03
Carbon Residue (10% Residue)	<0.1	wt%	0.1 MAX	ASTM D 4530-00
Flash Point	91.0	°C	60 MIN	ASTM D 93-00
Total Acid Number	0.1	mgKOH/g	0.25 MAX	ASTM D 974-97
Strong Acid Number	NIL	mgKOH/g	NIL	ASTM D 974-97
Water by Distilation	<0.05	vol%	0.05 MAX	ASTM D 95-99
Ash	0.002	wt%	0.01 MAX	ASTM D 482-00a
Cetane Index	55	-	47 MIN	ASTM D 976-00
Pour Point	+9	°C	+15 MAX	ASTM D 97-96a
Sediment by Extraction	<0.01	wt%	0.01 MAX	ASTM D 473-95
Copper Corrosion	1a	-	1 MAX	ASTM D 130-94

Hi-Speed Diesel contains detergents that enhance combustion through a process of cleaning up of fuel injectors that are blocked with harmful deposits. This improves spray pattern and prevents the injectors from "dribbling" with diesel. These detergents not only clean the injectors but also prevent the formation of new deposits making it work as good as new, every time.

HSD is normally used as a fuel for high speed diesel engines operating above 750 r.p.m. i.e. buses, lorries, generating sets, locomotive, pumping sets etc. Gas Turbines requiring distillate fuels normally make use of HSD as fuel.

PETRONAS BITUMEN 80/100 (ASPHALT)

PROPERTIES	GUARANTEED LEVEL		TEST METHOD
	MINIMUM	MAXIMUM	
• Penetration @ 25°C, 0.1mm	80	100	ASTM D 5
• Softening Point R & B, °C	45	52	ASTM D 36
• Solubility in 1,1,1-trichloroethylene, % wt	99.0	-	ASTM D 2042
• Ductility @ 25°C, cm	100	-	ASTM D 113
• Flash Point (Cleveland Open Cup), °C	225	-	ASTM D 92
• Loss on Heating, %wt	-	0.5	ASTM D 6
• Drop in Penetration after Heating, %	-	20	ASTM D6 / D5
• Specific Gravity, @ 25°C	1.00	1.05	ASTM D 70
• Retained Penetration After Thin-film Oven Test, %	47	-	ASTM D 1754 / D5

APPLICATION	PRECAUTION	SPECIFICATION
The following temperatures are recommended for spraying and mixing when using PETRONAS Bitumen 80 / 100. Spraying 160 - 200°C Mixing 140 - 160°C		PETRONAS BITUMEN 80 / 100 is produced as per Malaysian Standard MS 124 1973.

Rev 03/2004

FUEL OIL 180 cSt

PROPERTIES	GUARANTEED LEVEL		TEST METHOD
	MINIMUM	MAXIMUM	
Kinematic Viscosity @ 50^{0}C, cSt	-	180	D 445
Total Sulphur, mass %	-	3.5	D 4294 / IP 242 / D 2622
Density @ 15^{0}C, kg/l	-	0.991	D 1298 / D 4052
Flash Point, ^{0}C	66	-	D 93
Water by Distillation, vol %	-	0.5	D 95
Sediment by Extraction, mass %	-	0.1	D 473
Pour Point, ^{0}C	-	21	D 97 / D 5950
Gross Calorific Value, kJ/kg	41800	-	D 4868 / D 240
Conradson Carbon Residue, wt % or Micro Carbon Residue, wt %	- -	16 16	D 189 D 4530
Ash, mass %	-	0.10	D 482

APPLICATION

For boilers, furnaces, ovens and bunkers – fired diesel engines. It is also commonly known as Bunker Fuel.

PRECAUTION

Prolonged or repeated contact with skin can be harmful.
Keep out of reach of children.

SPECIFICATION

PETRONAS Fuel Oil 180 cSt meets the following specifications:

SIRIM MS 122 (1986)
JIS K 2205 (1980)
ASTM D 396 (No. 6)
BS 2869 (1983)

MARINE FUEL OIL

TEST	UNIT	TEST METHODS	SPECIFICATION
Density@ 15ºC	Kg/l	ASTM D1298 / ISO 3675 / 12185	MAX 0.991
Kinematic Viscosity @ 50º C	cSt	ASTM D445 / ISO 3104	MAX 380
Flash point	Deg C	ASTM D93 / ISO 2719	MIN 60
Micro Carbon Residue	% wt	ASTM D4530 / IP 398 / 96 (04) / ISO 10370	MAX 18
Sulphur	% wt	ASTM D4294 / ISO 8754 / 14596	MAX 4.5
Ash	% wt	ASTM D482 / ISO 6245	MAX 0.15
Pour Point	Deg C	ASTM D97 / ISO 3016	MAX 30
Water by Distillation	% Vol	ASTM D95 / ISO 3733	MAX 0.5
Vanadium	Mg/kg	IP 377 (MOD) / IP 501 / ISO 14597	MAX 300
Total Sediment, Potential	% wt	IP 390 / ISO 10307-2	MAX 0.10
Aluminium+ Silicon	Mg/kg	IP 377 (MOD) / IP 501 / ISO 10478	MAX 80
Zinc	Mg/Kg	IP 501 / 470	MAX 15
Phosphorous	Mg/Kg	IP 501	MAX 15
Calcium	Mg/Kg	IP 501 / 470	MAX 30

NOTE:

(*) A FUEL SHALL BE CONSIDERED TO BE FREE OF ULO IF ONE OR MORE OF THE ELEMENTS ZINC, PHOSPHOROUS AND CALCIUM ARE BELOW OR AT THE SPECIFIED LIMITS. ALL THREE ELEMENTS SHALL EXCEED THE SAME LIMIT BEFORE A FUEL SHALL BE DEEMED TO CONTAIN ULO.

JET A-1

PROPERTIES		LIMITS	TEST METHOD IP	TEST METHOD ASTM
APPEARANCE				
Visual		Clear, bright and visually free from solid matter and undissolved water at ambient temperature		
VOLATILITY				
Flash point, °C	min	38.0	170 or 523	D 56 or D 3828
Density at 15°C, kg/m³		775.0 min to 840.0 max	160 or 365	D 1298 or D 4052
REMARKS Subject to a minimum of 40°C, results obtained by method ASTM D 56 (Tag) may be accepted.				
FLUIDITY				
Freezing Point, °C	max	-47.0	16 or 435 or 528 or 529	D 2386 or D 5972 or D 7153 or D 7154
REMARKS These automatic methods are allowed by DEF STAN 91-91/5.IP 16/ASTM D 2386 remains the referee method.				
COMBUSTION				
Specific Energy, net, MJ/kg	min	42.80		D 3338 or D 4809
REMARKS ASTM D 4529/IP 381 may be used where local regulations permit				
CORROSION				
Corrosion, Copper strip, classification	max	1	154	D 130
STABILITY				
Thermal Stability (JFTOT)			323	D 3241
Control temperature, °C	min	260		
Filter Pressure Differential, mm Hg	max	25.0		
REMARKS Examination of the heater tube to determine the Visual Tube Rating using the Visual Tuberator shall be carried out within 120 minutes of completion of the test. It is the Visual Tube Rating that should be reported. Attention is drawn to **Note 10*** in DEF STAN 91-91/5, which stresses that only approved heater tubes shall be used and lists JFTOT tubes from PAC-Alcor as being technically suitable.				
CONTAMINANTS				
Existent Gum, mg/100ml	max	7	540	D 381
CONDUCTIVITY				
Electrical Conductivity, pS/m		50 min to 600 max	274	D 2624
REMARKS Due to the requirements of DEF STAN 91-91/5, conductivity limits are mandatory for product to meet this specification. However it is acknowledged that in some manufacturing and distribution systems, it is more practical to inject SDA further downstream. In such cases, the Certificate of Quality for the batch should be annotated thus: "Product meets the requirements of AFQRJOS Check List 22 except for electrical conductivity". Due to the high flow rates and very fine filtration used when fuelling aircraft, it is absolutely essential tat these conductivity limits are met at the point of delivery to aircraft.				

Aviation Fuel - AV Gas

AVGAS

TEST	PROPERTY	UNITS	LIMITS			METHOD
			GRADE 80	GRADE 100	GRADE 100LL	
1	Appearance		Clear, bright and visually free from solid matter and undissolved water at ambient temperature			Visual Examination
2	Colour, visual (see NOTE 1)		Red	Green	Blue	
3	Corrosion Copper Strip		Max 1			IP 154/ ASTM D 130
4	Density at 15°C	Kg/m^3	Report			IP 365/ASTM D4052
5	Total Sulfur	% m/m	Max 0.05			IP 107/ ASTM D1266
6	Existent Gum	Mg/100ml	Max 3.0			IP 131/ ASTM D381
7	Freezing Point	°C	Max minus 58.0			IP 16/ ASTM D2386 (see NOTE 2)
8	Specific Energy	MJ/kg	Min 43.50			IP 12
9	Reid Vapour Pressure at 37.8 °C	kPa	Min 38.0 Max 49.0			IP 69/ ASTM D323
10	Knock Rating:					
10.1	Lean Mixture Motor Method Octane Number		Min 80.0	Min 99.5	Min 99.5	IP 236/ ASTM D2700 (see NOTE 3)
10.2	Rich Mixture Octane Number		Min 87.0	-	-	IP 119/ ASTM D909 (see NOTE 3)
10.3	Performance Number		-	Min 130	Min 130	IP 119/ ASTM D909 (see NOTE 3)
11	Distillation:					IP 123/ ASTM D86 Group 2
11.1	Initial Boiling Point	°C	Report			
11.2	Temperature at % fuel evaporated					
11.2.1	10 vol %	°C	Max 75.0			
11.2.2	40 vol %	°C	Min 75.0			
11.2.3	50 vol %	°C	Max 105.0			
11.2.4	90 vol %	°C	Max 135.0			
11.3	Final Boiling Point	°C	Max 170.0			
11.4	Sum of 10% and 50% Evaporated Temperatures	°C	Min 135.0			
11.5	Residue	% v/v	Max 1.5			
11.6	Loss	% v/v	Max 1.5			
12	Oxidation Stability, 16 hours					IP 138/ ASTM D873
12.1	Potential Gum	mg/100ml	Max 6			
12.2	Precipitate	mg/100ml	Max 2			
13	Tetraethyl Lead Content	gPb/l	Max 0.14	Max 0.85	Max 0.56	IP 270
14	Water Reaction					IP 289/ ASTM D1094
14.1	Volume Change	ml	Max 2			
15	Electrical Conductivity	pS/m	See NOTE 4			IP 274/ ASTM D2624
16	Colour, Lovibond					IP 17 (see NOTE 5)
16.1	Blue		-	Min 1.7 Max 3.5	Min 1.7 Max 3.5	
16.2	Yellow		-	Min 1.5 Max 2.7	- -	
16.3	Red		Min 6.7 Max 9.1	- -	- -	

NOTE 1: The visual colour must also comply with test 16 of this table.

NOTE 2: If no crystals appear when the thermometer indicates a temperature of -58°C, the freezing point shall be recorded as below -58°C.

NOTE 3: Knock rating shall be reported to the nearest 0.1 for Octane Number and nearest whole number for Performance Number.

NOTE 4: When a Static Dissipator Additive has been added to the fuel the conductivity at the point, time and temperature of delivery to the purchaser shall be in the range 50 to 600 pS/m.

NOTE 5: Use test method IP 17 (Method A) using a 50.8 mm cell.

We JBS GLOBAL HOLDINGS,

Embrace the World with a Humble and Sincere Attitude.

• Vision (Passion) I Focus (Dedication) I Continuation (Patience) I Achievement (Growth) •

Thank you for your cooperation