



S U C C E S S F U L I N T E A M

**STANDARD - SPECIFICATIONS
R – 10.06.2011**

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Specifications

General

Below you will find specifications for the various raw materials. It is indicative. Deviations are possible. For the Order shall apply to the sale agreed values.

HMS 1 & 2 (80:20%)

The Seller guarantees to the Buyer that the Goods delivered will correspond to the characteristics shown below:

The scrap metal sales consists out of a mix of mill scrap (stampings, cuttings, bars, etc.), Industrial scrap (nuts, bolts, misc. pieces, etc), auto and truck frames and bodies,



railroad scrap (wheels, axles, parts of locomotives and carriages, etc.), ship scrap (fittings, plate pieces, parts), construction scrap (plate, bars, angle pieces, rods, steel pipe, etc.) and miscellaneous commercial scrap (appliance casings, frames and parts, etc.). Non-metal impurities total 1% (one percent) or less. All goods will also be totally free from any types of radiation, bombs, arms and ammunition, mines, shell, cartridges, sealed containers, gas cylinders, explosive shells or explosive materials in any form either used or otherwise as per the specification below.

ISRI CODE: 200-206

ISRI 200 No. 1 heavy melting steel. Wrought iron and/or steel scrap 1/4 inch and over in thickness. Individual pieces not over 60 x 24 inches (charging box size) prepared in a manner to insure compact charging.

ISRI 201 No. 1 heavy melting steel 3 feet x 18 inches. Wrought iron and/or steel scrap 1/4 inch and over in thickness. Individual pieces not over 36 inches x 18 inches (charging box size) prepared in a manner to insure compact charging.

ISRI 202 No. 1 heavy melting steel 5 feet x 18 inches. Wrought iron and/or steel scrap 1/4 inch and over in thickness. Individual pieces not over 60 inches x 18 inches (charging box size) prepared in a manner to insure compact charging.

ISRI 203 No. 2 heavy melting steel.* Wrought iron and steel scrap, black and galvanized, 1/8 inch and over in thickness, charging box size to include material not suitable as No. 1 heavy melting steel. Prepared in a manner to insure compact charging.

ISRI 202 No. 1 heavy melting steel 5 feet x 18 inches. Wrought iron and/or steel scrap 1/4 inch and over in thickness. Individual pieces not over 60 inches x 18 inches (charging box size) prepared in a manner to insure compact charging.

ISRI 203 No. 2 heavy melting steel.* Wrought iron and steel scrap, black and galvanized, 1/8 inch and over in thickness, charging box size to include material not suitable as No. 1 heavy melting steel. Prepared in a manner to insure compact charging.

ISRI 204 No. 2 heavy melting steel.* Wrought iron and steel scrap, black and galvanized, maximum size 36 x 18 inches. May include all automobile scrap properly prepared.

ISRI 205 No. 2 heavy melting steel 3 feet x 18 inches. Wrought iron and steel scrap, black and galvanized, maximum size 36 x 18 inches. May include automobile scrap, properly prepared, however, to be free of sheet iron or thin gauged material.

ISRI 206 No. 2 heavy melting steel 5 feet x 18 inches. Wrought iron and steel scrap, black and galvanized, maximum size 60 x 18 inches. May include automobile scrap, properly prepared, however, to be free of sheet iron or thin gauged material.

Used Rails R50 - R65

The Rail shall conform to R50-65 and will be used Rail - Standard section "T" rails original weight 50 pounds per yard or heavier. Material can be cut in 1,50 meter lengths. Free from mud, dust, fluff, non ferrous inclusions, excessive rust and other impurities. Free from war and explosives, shells, cartridges, other arms and ammunitions used or otherwise and any closed containers. Free from any radioactive materials, any harmful chemicals, substances, and coatings, any organic waste and any other harmful substances. Dirt, dust rust, fluff and other impurities not allowed over 1%.



Sizes: 1,5 or 6 to 12 meters
 C: 0.54 – 0.82
 Si: 0.18 – 0.40
 Mn: 0.60 – 1.05
 S: 0.04 max
 P: 0.035 max
 As: 0.01% max of Mass Share
 Grading: as per Russian Standard
 The scrap consists as
 R-50 (51.67 Kg/m - Gost - 7173 - 75)
 R-65 (64.72 Kg/m - Gost - 8165 - 75)

Steam Coal

We offer Steam Coal from Indonesia. The Standard specification can be seen from the following table. ORGAKOM has more than 15 mines long term agreements for the supply of steam coal. Therefore, in each case the specifications of the default values shown here differ. For the Order shall apply to the sale agreed values. If you have product specific search specifications, please contact us.

Specification Steam Coal					
	5.500 - 5.300 kcal/kg	5.800 - 5.500 kcal/kg	6.100 - 5.800 kcal/kg	6.300 - 6.100 kcal/kg	6.500 - 6.300 kcal/kg
Gross Calorific (ADB)	5.500 kcal/kg	5.800 kcal/kg	6.100 kcal/kg	6.300 kcal/kg	6.500 kcal/kg
Rejection (ADB)	< 5.000 kcal/kg	< 5.300 kcal/kg	< 5.500 kcal/kg	< 5.800 kcal/kg	< 6.100 kcal/kg
Total Moisture (ARB)	max. 28,0 %	max. 22,0 %	max. 18,0 %	max. 16,0 %	max. 14,0 %
Inherent Moisture (ADB)	max. 15,0 %	max. 13,5 %	max. 12,0 %	max. 10,0 %	max. 9,0 %
Ash content (ADB)	max. 7,0 %	max. 11,0 %	max. 11,0 %	max. 13,0 %	max. 15,0 %
Volatile matter (ADB)	42,0 %	Approx.	43,0 %	43,0 %	43,0 %
Fixed Carbon (ADB)	39,0 %	by difference	41,0 %	by difference	by difference
Total Sulphur (ADB)	max. 1,0 %	max. 1,0 %	max. 1,0 %	max. 1,0 %	max. 1,0 %
Grindability (HGI)	min. 42	min. 45	min. 43	min. 41	min. 40
Ash Fusion Temp					
Origin	Indonesia	Indonesia	Indonesia	Indonesia	Indonesia



Indonesia is one of the largest steam coal exporting Asian countries. Most coal mines in Indonesia are located in Kalimantan and Sumatra. Indonesia exported a month more than 15 million tons of steam coal. On the pictures you can see the preparation of steam coal in a ORGAKOM mine, and the loading of a barge to transport the coal on the river to the seaport.

ORGAKOM is capable of large quantities of steam coal from Indonesia to supply.

Iron Ore

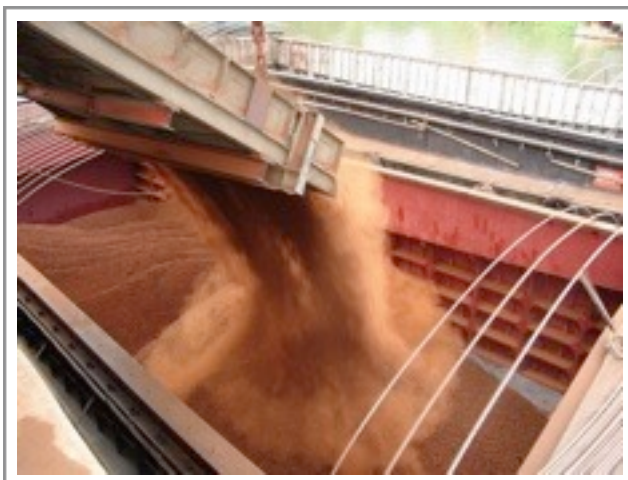
We offer Iron Ore from Indonesia, India and Brazil. The Standard Specification can be seen from the following table. ORGAKOM has more than 15 mines long term agreements for the supply of Iron Ore. Therefore, in each case the specifications of the default values shown here differ. For the Order shall apply to the sale agreed values. If you have product specific search specifications, please contact us.

Specification Iron Ore					
		Indonesia		Australia	India
		Fe 62,0%	Fe 64,5%	Fe 64,5%	Fe 62,0%
Iron (Fe) Total	Fe	62,00%	64,50%	64,50%	62,00%
Rejection		59,00%	61,00%	63,00%	59,00%
Aluminium trioxide	Al ₂ O ₃	1,10%	1,35%	1,35%	3,27%
Calcium oxide	CaO	0,50%	0,35%	0,02%	
Magnesium oxide	MgO	0,04%	0,04%	0,05%	0,06%
Manganese dioxide	MnO ₂	0,50%	0,55%	0,10%	0,55%
Chrome trioxide	Cr ₂ O ₃	0,20%	0,15%		
Sodium oxide	Na ₂ O	0,05%	0,23%		
Potassium oxide	K ₂ O	0,10%	0,16%	0,10%	
Silicone dioxide	SiO ₂	2,10%	2,20%	2,90%	4,00%
Titanium dioxide	TiO ₂	0,30%	0,28%	0,04%	0,30%
Phosphorus	P	0,09%	0,10%	0,08%	0,07%
Sulfur	S	0,09%	0,10%	0,02%	0,02%
Loss On Ignition	LOI	3,38%	2,35%	4,20%	
Moisture Total (ARB)				8,00%	8,50%
Moisture Content *)		2,90%	3,90%		
Origin		Indonesia	Indonesia	Australia	India
Iron Ore Fines					
< 1,0 mm		45%	45%	45%	45%
> 1,0 mm		55%	55%	55%	55%
> 6,0 mm		10%	10%	10%	14%
> 10,0 mm		1%	1%	1%	9%
Iron Ore Lumps					
< 10,0 mm		10%	10%	21%	
< 30,0 mm		70%	70%	92%	
< 50,0 mm		99%	99%	99%	
> 50,0 mm		1%	1%	1%	

*) Moisture Content Oven drying 105 C to constant weight

Indonesia has large iron ore deposits with the size of the deposits in Australia or India can be compared. The vast majority of these deposits, however, is still not developed. The Indonesian iron ore mines in Kalimantan and Sumatra located.

Below are some pictures from our iron ore mines in Indonesia. You can cycle from the mining of iron ore, on the preparation, storage up to the ship loading seen.



Manganese Ore

The mining and processing of Manganese Ore is very expensive and so only limited quantities are available. The product will be shipped in 1 MT big bags and containers. We offer Manganese Ore from Thailand and Indonesia with follow specifications:

Specification Manganese Ore			
		from Thailand	from Indonesia
Manganese	Mn	45,00%	47,00%
Phosphorus	P	1,00%	0,10%
Iron	Fe	8,00%	6,00%
Silica	SiO ₂	15,00%	8,00%
Sulphur	S	1,00%	0,10%
Aluminium	Al ₂ O ₃	5,00%	6,00%
Moisture at 105°		8,00%	10,00%
Physical Size	20-100mm	100%	



Chromite Ore

From South Africa we can up to 10.000 MT/months Chromite Ore offer. The Material has the following specification:

Specification Chromite Ore Lumps		
		from South Africa
Chrome trioxide	Cr ₂ O ₃	46,00%
Silicone dioxide	SiO ₂	7,00%
Ratio	Cr : Fe	2 : 1
Moisture max.		8,00%

Urea N 46% Fertilizer

From a European production, we can even larger quantities of Urea with the following Specification offer:

Specification Urea N 46% Fertilizer	
Free Flowing without harmful substances	100,00%
Treated against caking, non-clotted	100,00%
Nitrogen - Minimum by weight (Dry Method)	46,00%
Moisture - maximum (Fischer Method)	0,50%
Biuret - maximum by weight	1,0%
Free Ammonia - pxt, ppm max.	160
Melting Point - 132 degrees Celsius	132 °C
Color	pure white prilled
Radiation certified	non radioactive
Granulometric Content - 1,4mm	90,00%
and free looseness	100,00%
Anti caking agent - max.	0,05%
Prill - max.	95,00%