ILMENITE CONCENTRATE (VILNOHIRSK)

Other names: Ilmenite sand, Ilmenite
CAS number: 1317-80-2
Formula: : $Fe_2O_3*TiO_2$

Specifications: 14-10-005-98
Harmonized Commodity Code: 2614001000

Chemical analysis

CONTENTS, %	STANDARD	LOW Al_2O_3
TiO_2 min	63	63
Al_2O_3 max	3	1,5
SiO_2 max	2	1,4
Cr_2O_3 max	None	None
Moisture, max	0,5	0,5
Mesh Residue No. 04, max	0,4	0,4

Physical description and properties:

Appearance: Usually black, free running sand. Grain shape: impressed spherical. Grain color: from light brown up to black.

Minerals	Contents, %
Ilmenite	92-94
Rutile/ Leucoxene	2,0-3,5
Zircon	0,1-0,4
Staurolite	1-3
Kyanite	0,1-0,3
Turmaline	0,1-0,2
Chromes pinelite	1,5-2,5

End use: Ilmenite concentrate is used in production of synthetic rutile, pigment titanium dioxide, welding electrodes, titanium sponge, metal titanium and in steelmaking furnaces.

Shipment:

· Bulk in railway cars or vessel holds;
· 50 kg bags;
· Soft containers (big bag) 1 t net.

Storage:

in closed containers or bags, protect from physical damage. Terms of storage unlimited.

Melting point	1365°C
Specific Gravity	4120 - 4170 kg/m^3
Bulk density	2130 - 2240 kg/m^3
Grain size	63 -160 µm
Flammability	Nonflammable
Solubility in Water	Insoluble
Angle of friction	32
Hardness	5

SIEVE APERTURE (µm)	CUMULATIVE RETAINED, %
+200	2
+160	12
+106	89
+63	99
-63	100

ILMENITE CONCENTRATE (IRSHANSK)

Other names: Ilmenite sand, Ilmenite
CAS number: 1317-80-2
Formula: : $Fe_2O_3*TiO_2$

Technical Condition of Ukraine: 14-10-009-97
Harmonized Commodity Code: 2614001000

Chemical analysis

CONTENTS, %	
TiO_2	54,0-58,0
Al_2O_3	None
SiO_2	0,60-2,00
Cr_2O_3	0,02-0,05
Moisture, max	1,5
Mesh Residue №04	None
Fe_2O_3	13,00-21,00
FeO	15,00-25,00
P_2O_5	0,100-0,190

Physical description and properties:

Appearance: Dry grey- black metalescent free running sand.
Grain shape: angle, spherical.

MINERALS	CONTENTS, %
Ilmenite	94,5 min
Rutile	Traces
Zircon	0,05-0,40
Siderite	0,8-4,0
Hydroxides	0,1-0,5
Marcasite	0,1-3,0
Garnet, staurolite	Traces-0,5
Leucoxene	0,02-1,00
Apatite	Traces-0,1
Pyroxene	Traces
Mica	Traces
Quartz	0,2-3,00

End use: Ilmenite concentrate is used in production of synthetic rutile, pigment titanium dioxide, welding electrodes, titanium sponge, metal titanium and in steelmaking furnaces."

Shipment:
· Bulk in railway cars or 20-foot sea container.

Storage:

Terms of storage unlimited.

Melting point	~1365 °C
Specific Gravity	4150 - 4250 kg/m^3
Bulk density	2150 - 2350 kg/m^3
Grain size	300 µm
Flammability	Nonflammable
Solubility in Water	Insoluble
Angle of friction	32
Hardness	5

SIEVE APERTURE (µm)	CUMULATIVE RETAINED, %
2,0	Traces
1,0	4
0,56	23
0,28	27
0,14	34
0,10	8
-0,10	4

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