ILMENITE CONCENTRATE (VOLNOGORSK)

Other names: Ilmenite sand, Ilmenite
CAS number: 1317-80-2
Formula: Fe2O3*TiO2
Technical Condition of Ukraine TU-U 14-10-005-98
Harmonize Commodity Code 2614001000

Chemical analysis

Contents, %	STANDARD	LOW Al2O3	LOW Cr2O3	
TiO2, min	63	63	63	
Al2O3, max	3	1,5	3	
SiO2, max	2	1,4	2	
Cr2O3, max	None	None	0,4	
Moisture, max		0,5	0,5	0,5
Mesh Residue№04, max			0,4	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:	90-96
Rutile/ Leucoxene:	0,5-4
Zircon:	0,1-0,5
Monazite:	<0,2
Staurolite:	0,5 - 4,0
Kyanite:	0,05 - 0,3
Turmaline:	0,05 - 0,2
Chromes pinelite:	1,5-3,0

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

Melting point:	~1365°C
Specific Gravity:	4120 - 4170 kg/m3
Bulk density:	2130 - 2240 kg/m3
Grain size:	63 -160 mkm
Flammable:	Nonflammable
Solubility in Water:	Insoluble
Angle of friction:	32
Hardness:	5

Sieve Aperture (microns)	Cumulative retained, %
212	Traces
150	10
106	64
75	99
-75	100

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.