



**ILMENITE CONCENTRATE
(TiO₂ 63%)**

Specification

Manufacturer: Volnogorsk Mining and Processing Plant

Origin: Ukraine

Other name: ilmenite sand, ilmenite

CAS number: 1317-80-2

HS code: 2614000010

End application: production of synthetic rutile, titanium pigment dioxide, welding electrodes, sponge titanium, metal titanium, in steelmaking production

Chemical analysis:

Name	Content, %
TiO ₂	min. 63
Al ₂ O ₃	max. 3.0
SiO ₂	max. 2.0
Cr ₂ O ₃	none
Moisture	max. 0.5
Mesh Residue No. 04	max. 0.4

Minerals:

Name	Content, %
Ilmenite	90-96
Rutile/Leucoxene	0.5-4.0
Zircon	0.1-0.5
Marcasite	0.0-0.2
Staurolite	0.5-4.0
Kyanite	0.05-0.30
Turmaline	0.05-0.2
Chromes pinelite	1.5-3.0

Physical description and properties:

Terms of storage	unlimited
Appearance	from light brown up to black metalescent free running sand
Grain shape	impressed spherical
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