



**ILMENITE CONCENTRATE
(TiO₂ 54-58%)**

Specification

Manufacturer: Irshansk 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	54.0-58.0
Al ₂ O ₃	max. 1.00
SiO ₂	max. 3.00
Cr ₂ O ₃	max. 0.50
P ₂ O ₅	max. 0.25
Fe ₂ O ₃	13.00-25.00
FeO	9.00-20.00
MnO	max. 0.8
V ₂ O ₅	max. 0.35
Moisture	max. 1.5
Mesh Residue No. 04	none

Minerals:

Name	Content, %
Ilmenite	min. 94.5
Zircon	max. 0.5
Siderite	max. 3.0
Iron hydroxides	max. 0.5
Marcasite free	max. 1.0
Marcasite with ilmenite	max. 3.0
Leucoxene	max. 1.0
Apatite	max. 0.1
Quartz	max. 3.0

Physical description and properties:

Terms of storage	unlimited
Appearance	grey-black metalescent free running sand
Grain shape	angle, spherical
Melting point	1365 °C
Specific gravity	4150 - 4250 kg/m ³
Bulk density	2150 - 2350 kg/m ³
Average grain size	300 µm
Flammability	nonflammable
Solubility in water	insoluble
Angle of friction	32
Hardness	5