



**ILMENITE CONCENTRATE  
(TiO<sub>2</sub> 52-54%)**

Specification

**Manufacturer:** Mezhirichensky 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 <sub>2</sub>	52.0-54.0
SiO <sub>2</sub>	2.50-3.50
Cr <sub>2</sub> O <sub>3</sub>	0.025-0.037
P <sub>2</sub> O <sub>5</sub>	0.10-0.15
Fe <sub>2</sub> O <sub>3</sub>	10.00-16.00
FeO	22.00-30.00
Moisture	max. 1.5
Residue on the sieve 4mm	0.0-0.5

**Minerals:**

Name	Content, %
Ilmenite	min. 94.5
Zircon	0.1-1.0
Siderite	1.2-3.8
Marcasite in growth	0.1-0.8
Marcasite free	0.1-3.0
Leucoxene	0.1-1.0
Quartz	1.5-3.0

**Physical description and properties:**

Terms of storage	unlimited
Appearance	grey-black metalescent free running sand
Grain shape	angle, spherical
Melting point	1365 °C
Bulk density	2240 - 2450 kg/m <sup>3</sup>
Flammability	nonflammable
Solubility in water	insoluble
Angle of friction	32
Hardness	5