



RUTILE CONCENTRATE

Specification

Manufacturer: Volnogorsk Mining and Processing Plant

Origin: Ukraine

Other name: rutile sand, rutile

CAS number: 1317-80-2

HS code: 2614009000

End application: production of welding electrodes, pigment titanium dioxide, titanium sponge and metal titanium

Chemical analysis:

Name	Content, %
TiO ₂	min. 94
Al ₂ O ₃	max. 0.6
Fe ₂ O ₃	max. 2.8
SiO ₂	max. 1.5
ZrO ₂	max. 1.0
P ₂ O ₅	max. 0.07
SO ₃	max. 0.05
Cr ₂ O ₃	max. 0.2
V ₂ O ₅	max. 0,4
CaO	max. 0,05
U+Th	max. 70 ppm
Moisture	max. 0.5

Minerals:

Name	Content, %
Rutile	92-97
Leucoxene	3.0-7.0
Zircon	0.2-1.5
Ilmenite	0.5-5.0
Kyanite	0.1-0.5
Quartz	0.1-0.2

Physical description and properties:

Terms of storage	unlimited
Appearance	from brown to black metalescent free running sand
Grain shape	elongated, rolled
Melting point	1850 °C
Specific gravity	4150 - 4300 kg/m ³
Bulk density	2300 - 2400 kg/m ³
Grain size	63-160 μm
Flammability	nonflammable
Solubility in water	insoluble
Angle of friction	30
Hardness	6

Production of Rutile flour by request.