

RUTILE CONCENTRATE

Other names: Rutile sand, Rutile CAS number: 1317-80-2 Formula: TiO₂
 Technical Condition of Ukraine TU-U 14-10-016-98 Harmonize
 Commodity Code 2614009000

Chemical analysis

Contents, % STANDARD GRADE "G" NORMAL

TiO ₂ min	94	94	95-96
Al ₂ O ₃ max	0,6	0,6	0,3-0,5
Fe ₂ O ₃ max	2,8	1,5	1-1,5
SiO ₂ max	1,5	1,5	1,3
ZrO ₂ max	1,0	1,0	0,5-0,8
P ₂ O ₅ max	0,07	0,07	0,07
SO ₃ max	0,05	0,05	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	70 ppm	70 ppm
Moisture max	0,5	0,5	0,1

Physical description and properties:

Appearance:

Dark brown to black dry free running sand.

Grain shape: elongated, rolled.

Grain color: red (different tints), brown, black.

Minerals Contents, %

Rutile: 92-97

Leucosene: 3-7

Zircon: 0,2 -1,5

Ilmenite: 0,5-5

Kyanite: 0,1 - 0,5

Quartz: 0,1 - 0,2

Storage: in closed containers or bags, protect from physical damage.

Terms of storage unlimited.

Melting point: 1850 °C

Specific Gravity: 4150 - 4300 kg/m³

Bulk density: 2300 - 2400 kg/m³

Grain size: 63 -160 mkm

Flammable: Nonflammable

Solubility in Water: Insoluble

Angle of friction: 30°

Hardness: 6

Sieve Aperture (microns) Cumulative retained, %

+ 180 1

+ 150 4

+ 125 14

+ 106 46

+ 75 98

- 75 100

Note: We can supply rutile flour. Usually Mesh Residue (100 micron) for flour is not less 5%. We are ready to consider the possibility of improved quality concentrate supplies. End use: Rutile concentrate is used in production of welding electrodes, pigment titanium dioxide, titanium sponge and metal titanium.

Shipment: