

-  Consistent supply
-  Superior Quality
-  Customer Focus
-  Technical Expertise
-  Environment Friendly

TOKALEV Minerals

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Heavy mineral resources for industrial applications



Rutile 95%



CAS No. : 1317-80-2

Formula : TiO₂

General Description : Rutile is a mineral composed primarily of titanium dioxide. It is used as a raw material for titanium dioxide pigment manufacture. Also used in titanium metal production and welding rod fluxes.

Chemical analysis

Elements	Contents (%)
TiO ₂ min	95.0
Fe ₂ O ₃ max	1.5
Al ₂ O ₃ max	0.4
SiO ₂ max	1.4
P ₂ O ₅ max	0.05
SO ₃ max	0.04
U + Th max	70 ppm
Moisture max	0.2

Mineral purity.

Minerals	Contents (%)
Rutile :	95.0
Zircon :	3.0
Leucoxene :	0.7
Sillimanite :	0.3

Sieve Analysis

Sieve Aperture (Microns)	Cumulative Retained (%)
+212	Traces
+150	10
+106	64
+75	99
-75	100

Physical properties

Property	Values
Melting point :	1850 °C
Specific gravity :	4150 - 4300 kg / m ³
Bulk density :	2300 - 2400 kg / m ³
Grain size :	63 - 160 μm
Flammable :	Non flammable
Solubility in water :	Insoluble
Angle of friction :	30 °C
Hardness :	6 mohs