



ZIRCON CONCENTRATE

Specification

Manufacturer: Volnogorsk Mining and Processing Plant

Origin: Ukraine

Other name: zirconium silicate, zircon sand

CAS number: 14940-68-2

HS code: 2615100000

End application: raw material for steelmaking, refractories, glassmaking, traditional ceramics, zirconia manufacture, zirconium manufacture, glass additive and foundry uses

Chemical analysis:

Name	Content, %
ZrO ₂ +HfO ₂	min. 65
TiO ₂	max. 0.4
Al ₂ O ₃	max. 2.0
Fe ₂ O ₃	max. 0.1
P ₂ O ₅	max. 0.12
SiO ₂	max. 32
Th+U	max. 320 ppm
Aef, kBq/kg	max. 4
Moisture	max. 0.5
Residue on sieve N°0315	none

Minerals:

Name	Content, %
Zircon	98-99
Rutile / Ilmenite	0.1-0.3
Monazite	0.0-0.2
Kyanite	0.5-2.5
Quartz	0.05-0.2

Physical description and properties:

Terms of storage	unlimited
Appearance	from light pink to red-brownish free running sand
Grain shape	elongated, rolled
Melting point	2200 °C
Specific gravity	4650 - 4750 kg/m ³
Bulk density	2650 - 2740 kg/m ³
Grain size	63-160 µm
Flammability	nonflammable
Solubility in water	insoluble
Angle of friction	30
Hardness	7-8

Production of Zircon flour by request.