

ZIRCON CONCENTRATE

Other names: Zirconium Silicate, Zircon sand, Zircon

CAS number: 14940-68-2

Formula: Zr [SiO₄]

Technical Condition of Ukraine TU-U 14-10-015-98

Harmonize Commodity Code 2615100000

Chemical analysis:

Contents, % STANDARD GRADE T TYPICAL

ZrO₂+HfO₂ min 65 65 65-66

TiO₂ max 0,4 0,2 0,2

Al₂O₃ max 2 2 1

Fe₂O₃ max 0,1 0,1 0,08

P₂O₅ max 0,12

SiO₂ max 32

Th+U max 320 ppm 320 ppm 320 ppm

Aef, kBq/kg, max 4,0 4,0 < 3

Residue on sieve №0315 None None None

Physical description and properties:

Appearance: Light pink free running sand. Grain shape: rolled, elongated. Grain color: pink, purple, red-brownish.

Melting point: 2200 °C

Specific Gravity: 4650 - 4750 kg/m³

Bulk density: 2650 - 2740 kg/m³

Grain size: 63 -160 mkm

Flammable: Nonflammable

Solubility in Water: Insoluble

Angle of friction: 30°

Hardness: 7-8

Minerals Contents, %

Zircon: 98-99

Rutile/ Ilmenite: 0,1-0,3

Monazite: 0,02

Kyanite: 0,5-2,5

Quartz: 0,05 - 0,2

Storage: in closed containers or bags, protect from physical damage. Terms of storage unlimited.

Sieve Aperture (microns) Cumulative retained, %

+ 2000,1

+ 160 1

+ 100 25

+ 63 99

Note: We are ready to consider the possibility of improved quality concentrate supplies.

End use: Raw material for steelmaking, refractories, glassmaking, traditional ceramics, zirconia manufacture, zirconium manufacture, glass additive and foundry uses.

Shipment:

Bulk in railway cars or vessel holds;

50 kg bags;

Soft containers (big bag) 1 t net.