

## KYANITE-SILLIMANITE CONCENTRATE

Other names: Kyanite-sillimanite sand, Disthene-sillimanite sand

CAS number: 1302-76-7

Formula:  $Al_2 [SiO_3]_2$

Technical Condition of Ukraine TU-U 14-10-017-98

Harmonize Commodity Code 2606000000

### Chemical analysis

Contents, % GUARANTEED      TYPICAL

Al <sub>2</sub> O <sub>3</sub> , min	57	58
TiO <sub>2</sub> , max	2,5	1,2-2,0
Fe <sub>2</sub> O <sub>3</sub> , max	0,8	0,8
CaO, max	0,2	0,1
MgO max	0,4	0,2
Na <sub>2</sub> O+K <sub>2</sub> O max		0,1
Th+U max		70 ppm
Moisture, max	0,5	0,1
ZrO <sub>2</sub> max		0,8

Physical description and properties:

Appearance: Dirty-white free running sand.

Grain shape: platelet, oblong, irregular angle.

Grain color: colorless, light blue, light grey.

Melting point: 1850 °C

Mullite transformation: 1350 - 1550 °C

Specific Gravity: 3200 - 3500 kg/m<sup>3</sup>

Bulk density: 1860 -1920 kg/m<sup>3</sup>

Grain size: 63 - 200 mkm

Flammable: Nonflammable

Solubility in Water: Insoluble

Угол естественного откоса: 32°

Angle of friction: 6

pH: 6,5 - 7,0

Minerals      Contents, %

Kyanite-Sillimanite      93-94

Rutile/ Ilmenite: 1-2

Zircon: 1-1,5

Quartz: 1-3

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

Terms of storage unlimited.

Sieve Aperture (microns)      Cumulative retained, %

+ 2004

+ 160 40

+ 100 90

+ 63 99,7

End use: Raw material for steelmaking, refractories, glassmaking refractories, ceramics coating, glass additive, mullite manufacture and foundry uses.

Shipment:

Bulk in railway cars or vessel holds;

50 kg bags;

Soft containers (big bag) 1 t net.