

## KYANITE-SILLIMANITE FLOUR

Other names: Kyanite-sillimanite, Disthene-sillimanite

CAS number: 1302-76-7

Formula: Al<sub>2</sub> [SiO<sub>4</sub>] O

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	2,0	1,3-1,8
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
Residue on sieve №005	3	<3

Physical description and properties:

Appearance: Dry powder of light grey color.

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

Melting point: 1850 °C

Mullite transformation: 1350 - 1550 °C

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

Bulk density: 960 kg/m<sup>3</sup>

Grain size: 63 - 200 mkm

Flammable: Nonflammable

Solubility in Water: Insoluble

Angle of friction: 32°

Hardness: 6

pH: 6,5-7,0

Minerals      tents, %

Kyanite-Sillimanite: 93-94

Rutile/ Ilmenite: 1-2

Zircon: 1-1,5

Quartz: 1-3

Sieve Aperture (microns)      Cumulative retained, %

+ 40 0,5

+ 20 15

+ 5 75

Note: We are ready to consider the possibility of concentrate supplies with different requirements for granulometric composition.

End use: Raw material for steelmaking, refractories, glassmaking refractories, ceramics coating, glass additive, mullite manufacture and in production of silumine.

Shipment:

Bulk in railway cars;

30 kg bags;

Soft containers (big bag) 0,4 t net.