KYANITE-SILLIMANITE FLOUR

Other Names: Kyanite flour, Disthene flour, Sillimanite flour,
CAS Number: 1302-76-7
Formula: $Al_2 [SiO_4] O$
Technical conditions of Ukraine TU U 14-10-017-98
Harmonized Commodity Code 2508500000

Chemical analysis

/ content, %/	GUARANTEED	TYPICAL
Al_2O_3 min	57	58
TiO_2 max	2,5	1,5
Fe_2O_3 max	1	0,8
CaO max	0,2	0,1
MgO max	0,4	0,2
Na_2O+K_2O max		0,1
Th+U max		70 ppm
Moisture max	0,5	0,1
ZrO_2 max		0,8
Sieve Residue 50 mkm	3	2,5

Physical Description and Properties

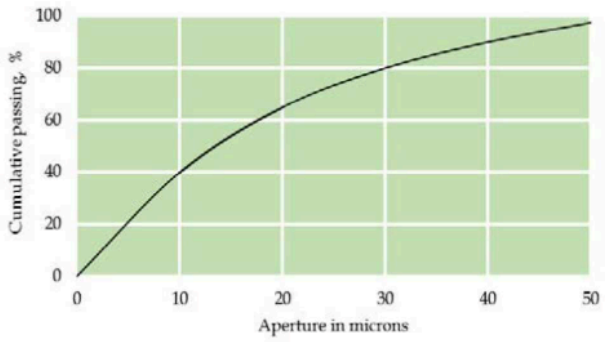
Appearance: dry powder of light-blue color.
Melting Point: 1850 °C
Mullite transformation: 1000 – 1450 °C
Specific Gravity: 3200 - 3500 Kg/m3
Bulk Density: 960 – 1000 kg/m3
Grain size: 0 - 50 mkm
Solubility in Water: Insoluble
Repose Angle: 32 °
Hardness: 4 - 6
pH: 6.5 – 7.0

Minerals	**Contents, %**
Kyanite-Sillimanite:	93 - 94
Rutile/ilmenite:	1 - 2
Zircon:	1 - 1.5
Quartz:	1 - 3

Storage: in closed containers or bags, covered area under the roof, free from moisture.
Terms of storage unlimited.

PARTICLE DISTRIBUTION

Kyanite-sillimanite flour has round shape.



Sieve Aperture, (microns)	Cumulative retained, %
-0	0
-10	40
-20	65
-30	80
-40	90
-50	97.5

Note:

The Plant is ready to consider the possibility of upgraded quality concentrate with different demand for granulometric content.

End use:

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

Shipment:

- bulk in railway cars;
- 30 kg bags (paper bag in cloth bag);
- soft containers (big bags) 0,4 MT Net.