

Radarweg 29
1043NX Amsterdam
The Netherlands



KYANITE-SILLIMANITE CONCENTRATE

Specification

Manufacturer: Volnogorsk Mining and Processing Plant

Origin: Ukraine

Other name: kyanite-sillimanite sand, disthene-sillimanite sand

CAS number: 14940-68-2

HS code: 2606000000

End application: raw material for steelmaking, refractories, glassmaking refractories, ceramics coating, glass additive, mullite manufacture and foundry uses

Chemical analysis:

Name	Content, %
Al ₂ O ₃	min. 57
TiO ₂	max. 2.5
Fe ₂ O ₃	max. 0.8
CaO	max. 0.2
MgO	max. 0.4
Na ₂ O+K ₂ O	max. 0.1
Th+U	max. 70 ppm
ZrO ₂	max. 0.8
Moisture	max. 0.5

Minerals:

Name	Content, %
Kyanite-Sillimanite	93-94
Rutile / Ilmenite	1.0-2.0
Zircon	1.0-1.5
Quartz	1.0-3.0

Physical description and properties:

Terms of storage	unlimited
Appearance	from dirty-white to light grey free running sand
Melting point	1850 °C
Mullite transformation	1350 - 1550 °C
Specific gravity	3200 - 3500 kg/m ³
Bulk density	1860 - 1920 kg/m ³
Grain size	63-200 µm
Flammability	nonflammable
Solubility in water	insoluble
Angle of friction	32
Hardness	6
pH	6,5 - 7,0