

MOLDING QUARTZ SAND

Other names: Quartz sand

CAS number: 7631-86-9

Formula: SiO₂

Technical Condition of Ukraine TU-U 14.2-00201081-056.2007

Harmonize Commodity Code 2505100000

Chemical analysis

Contents, % GUARANTEED TYPICAL

SiO₂ min 98,0 98-99

Banding clay, max 0,5 0,1-0,3

Fe₂O₃ max 0,4 0,2

I NazO + K₂O + CaO + MgO, max 0,4 < 0,1

LoI 0,5 0,3

Moisture, damp sand, max 6,0 4,0

Moisture, dry sand, max 0,5 0,2

pH, max. 6,2-9,0 6,2-8,0

Gas permeability, m²/ pa.s 100-350 170-230

UC, %, min 80,0 > 80,0

Grain size, mm 0,14-0,28 0,14-0,28

Physical description and properties:

Appearance: White dry free running sand.

Grain shape: spherical, good rolled.

Grain color: colorless, white.

Refractory: 1645 -1770 °C

Specific Gravity: 2650 kg/m³

Bulk density: 1500 kg/m³

Grain size: 140-280 mkm

Specific surface, max: до 10 m²/ kg

Flashing point: Nonflammable

Solubility in Water: Insoluble

Angle of friction: 33°

Gas permeability: 100-350 m² / Pa*s

Hardness: 7

Minerals Contents, %

Quartz: 97-99

Rutile: ^ 0,2

Zircon: ^ 0,1

Ilmenite: < 0,5

Kyanite: 0,5-1

Clay: 0,5

Storage: at unequipped spaces.

Terms of storage unlimited.

Sieve Aperture (microns) Cumulative retained, %

+ 400 1

+ 315 7

+ 200 52

+ 160 90

+ 100 98

+ 63 99,8

End use: Molding sand is used in foundry production.

Shipment:

Bulk in railway cars or vessel holds;

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