

silica

S2329NN	Gold Line
fine powder	
Typical analysis	
Assay (SiO ₂)	98.5%
Aluminium oxide (AlO ₃)	0.8%
Iron Oxide (Fe ₂ O ₃)	0.09%
Titanium dioxide (TiO ₂)	0.09%
Calcium oxide (CaO)	0.09%
Magnesium oxide (MgO)	0.09%
Sodium oxide (Na ₂ O)	0.09%

Packaging
500g white plastic jar
cas 7631-86-9

S2330NN	Gold Line
orange gel - self indicating	
Typical analysis	
Absorption capacity @ 50% RD	29.20%
Iron (Fe)	0.4%
Loss on drying (145°C)	0.6%

Packaging
500g white plastic jar
2kg white plastic bucket
5kg white plastic bucket
cas 112926-00-8

G0962NN	Gold Line
glass beads	

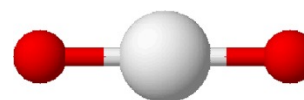
Packaging
500g white plastic jar
cas 65997-17-3

S2283NN	Platinum Line
sand acid washed	
Warranty certificate	
Acid soluble iron (Fe)	
Chloride (Cl)	
HCl soluble matter	
Loss on ignition (800°C)	

Packaging
500g white plastic jar
cas 65997-17-3

G0970NN	Silver Line
glass wool	

Packaging
500g white plastic jar
cas 65997-17-3



Physical properties, composition and data

Chemical formula	Sand and gel: SiO ₂ or O ₂ Si
Synonym	Sea sand; Silicic anhydride; Silicon dioxide
Occurrence in nature	As agate, amethyst, chalcedony, cristobalite, flint, quartz, sand, tridymite
Mixture	Glass: Inorganic fused mixture of silica, boric acid, phosphoric acid and sometimes aluminium oxide and other elements Silica gel is impregnated with moisture indicator
Atomic weight	60.08
Appearance	Powder: White to off-white powder sand yellow to yellowish-brown sand. Silica gel is orange crystals
Solubility	Soluble in molten alkali hydroxides and hydrofluoric acid
Melting point	1710°C and becomes glass
Boiling point	2230°C
Density (g/ml)	Powder: 2.2 Sand and Silica gel: 2.65
Products of decomposition	When heated gives off silicon tetrafluoride gas
Other information	Particle size of silica gel crystals: 2.8 - 7.0mm Bead diameter approximately 3mm. Wool is low in lead content
pH (aqueous solution)	Sand: 5 - 8

Laboratory preparation, applications and practices

Usage Analytical reagent. Gel for moisture absorption. Sand can also be used in the laboratory as a sand bath in heating of apparatus
Glass beads and wool: Packing in glass apparatus assemblies and filtration media

Storage and handling information

Disposal methods

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Transport regulations

Tariff code

Sand 2505.10.00 Gel 3823-90-98 Glass beads 7018.20.00 Glass wool 7019.90.10

