



TEN ROADS INDUSTRIAL COMPANY LIMITED

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MATERIAL COMPOSITION SHEET

Glass Beads H.S.CODE:70182000.90

Chemical Name & Synonyms	Soda-lime Silicate-Glass			
Chemical Family	Silicate glass without free silica			
Formula	SiO ₂	71-73%	Na ₂ O	13-15%
	MgO	3-5%	CaO	8-10%
	Al ₂ O ₃	0.5-2%	K ₂ O	0.2-0.6%
Physical Properties				
Boiling PointN/A		Vapour PressureN/A		
Percent Volatile by VolumeNil		Vapour DensityN/A		
Evaporation RateN/A		OdourNil		
Refractive Index1.52		Oil Absorption (ASTM)17		
Solubility in WaterNot Soluble		Mohs6		
Absolute Specific Gravity(H ₂ O=1)2.46		Knoop Load 100:515kg/mm ²		
Absolute Specific Gravity 1.6kg/dm ³		Hardness DPH Load 50kg:540kg/mm ²		
Specific Heat Average 0.18kcal/mh°C		Dielectric Strength 4,500kv/cm		
Dielectric Constant 7.2(1MC at 20°C)		Expansion Coefficient 8.5*10-6		

Physical Properties

Hardness	Specific Gravity	Bulk Density	Shape	Free Silica	Free Iron	Colour
6 - 7 Mohs	2.45—2.50 g/cm ³	≈ 1500kg/m ³	Spherical	NIL	< 1%	Clear