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# Technical Data Sheet

Version: 2.1

## HN20

Hollow Glass Microsphere (HGM HN20) is a kind of hollow spherical powder which is inorganic and non-metallic. It is a new kind of lightweight material with wide applications and excellent properties. Its true density is 0.1-0.6g/cm<sup>3</sup> and particle size is between 2-130um, Due to its advantages of light weight, large volume, low thermal conductivity, high compressive strength, good fluidity and stable chemical properties, Hollow Glass Microsphere is widely used in coatings, rubber, plastics, glass steel, artificial stone, atomic ash, emulsified explosives and oil and gas field mining industry products.

### Main Component

Soda-lime Borosilicate.

Model	True Density (g/cm <sup>3</sup> )	Bulk Density (g/cm <sup>3</sup> )	Crush Straight (Mpa/Psi)	Particle size distribution ( μ m)		
				D10	D50	D90
HN20	0.18-0.22	0.10-0.12	3.44/500	30	60	105

Oil Absorption Value: 0.2-0.6 g/ml

Thermal Conductivity: 0.02-0.06(w/m·k)At 20°C

pH: 8.0-9.5

Moisture Content: <0.3%

Softening Point: 620°C

Dielectric Constant: 1.2-1.8

### Application Guide

Aviation auxiliary materials, Coating, Emulsion explosive, Repair putty, Epoxy tooling board  
Buoyancy material, Adhesive, Inorganic insulation board, Sealing agent.

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