



Langfang Olan Glass Beads Co., Ltd
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HOLLOW GLASS MICROSPHERES

TECHNICAL DATA SHEET

1. Description

Olan hollow glass microspheres(glass bubbles) are made of Soda-lime-borosilicate glass with thin walls(wall thickness 1~3.5 μ m), inside of which contain thin N₂ gas、CO₂ gas etc. Olan hollow glass microspheres(glass bubbles) are of five grades with true density ranging from 0.25g/cc~0.60g/cc,Olan hollow glass microspheres(glass bubbles) can be used as lightweight functional additives for Composites,Thermal insulation paints/coatings, Sealant/adhesives, low density cementing slurries and a various applications with good quality and very competitive price.

2.True Density

Product	Requirement (g/cc)	True Density (g/cc)	
		Minimum	Maximum
H25	0.25	0.23	0.27
H32	0.32	0.30	0.34
H40	0.40	0.39	0.42
H46	0.46	0.45	0.48
H60	0.60	0.59	0.63

3.Nitrogen Isostatic Crush Strength

Product	Test Pressure (MPa/Psi)	Target Fractional Survival	Minimum Fractional Survival
H25	5/750	90%	80%
H32	14/2000	90%	80%
H40	28/4000	90%	80%
H46	41/6000	90%	80%
H60	55/8000	90%	80%

4.Thermal Stability

Appreciable changes in glass microspheres properties may occur above 625°C depending on temperature and duration of exposure.

5.Chemical Resistance

In general, the chemical properties of hollow glass microspheres resemble those of a soda-lime borosilicate glass.

6.Thermal Conductivity

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Product	Thermal Conductivity (W·m ⁻¹ ·K ⁻¹) at 20°C
H25	0.0512
H32	0.0535
H40	0.0654
H46	0.0777
H60	0.0934

7.Flotation

Product	Floaters (% by bulk volume)	
	Typical	Minimum
H25	92%	90%
H32	92%	90%
H40	92%	90%
H46	92%	90%
H60	92%	90%

8.Oil Absorption0.2-0.65g oil/cm³ of Olan hollow glass microspheres.**9.Particle Size**

Product	Particle Size(μm, by volume)				
	10%	50%	90%	d ₅₀	Size
H25	30	60	125	60	2-150
H32	30	60	120	60	2-130
H40	25	55	95	55	2-100
H46	25	55	90	55	2-100
H60	20	50	90	50	2-95

10.PH

Glass bubbles are dry powder,when mixed with deionized water at 5% volume loading, the resulting pH of the slurry is 8~9.5

11.Appearance

Free flowing white powder.

12.Flow

Hollow glass microspheres remain free flowing for at least half a year from the date of shipment if stored properly.



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13.Labeling

Each carton will be labeled with:

Type of hollow glass microspheres.Name of manufacturer. Lot number and quantity in kilograms.

14.Storage and Handling

Storage:

Store in dry, well ventilated and out of direct sunlight place.Have Waterproof Functions.Keep away from fire and heat.Stored apart with acids and not allowed mixed storage.With the suitable material for leakage in storage area.

Handling:

Airtight operation and local exhaust.The operator should be treated professionally and observe instructions seriously. The operator is suggested to wear self-inhalation filter type dust mask, protective chemical safety glasses, and protective gloves.Avoid producing dust and get in touch with acids.Should be light when load and unload to avoid breakage of packages.Equipped with emergency treatment equipment to avoid leakage.

15.Health and Safety Information

For product Health and Safety Information, refer to product label and Material Safety Data Sheet (MSDS) before using product.

16.Packing Information

A Box 41.5cm*41.5cm*52cm.

B Box 50cm*50cm*50cm.

Jumbo Bag 89cm*89cm*220cm

Net weight of hollow glass microspheres that can be loaded is shown as below chart.

Product	A Box (KGS)	B Box (KGS)	Jumbo Box (KGS)	Max loading in 40HQ by jumbo bag(KGS)
H25	12.5	18	300	6336
H32	15	22	420	8400
H40	20	28	550	11000
H46	22	32	630	12600
H60	30	40	800	16000

For more information, please don't hesitate to contact us.