



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 hollow glass spheres 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 0.32g/cm³~0.60g/cm³,Olan hollow glass microspheres(glass bubbles) are used as excellent density-reducing agents in oil and gas drilling fluids and cements all over the world.

2.True Density

Product	Requirement (g/cm ³)	True Density (g/cm ³)	
		Minimum	Maximum
Y2000	0.32	0.30	0.34
Y4000	0.40	0.39	0.42
Y6000	0.46	0.45	0.48
Y8000	0.60	0.59	0.63
Y12000	0.60	0.59	0.63

3.Nitrogen Isostatic Crush Strength

Product	Test Pressure (MPa/Psi)	Target Fractional Survival	Minimum Fractional Survival
Y2000	14/2000	90%	80%
Y4000	28/4000	90%	80%
Y6000	41/6000	90%	80%
Y8000	55/8000	90%	80%
Y12000	82/12000	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.

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6. Thermal Conductivity

Product	Thermal Conductivity (W·m ⁻¹ ·K ⁻¹) at 20°C
Y2000	0.0535
Y4000	0.0654
Y6000	0.0777
Y8000	0.0934
Y12000	0.1025

7. Flotation

Product	Floaters (% by bulk volume)	
	Typical	Minimum
Y2000	92%	90%
Y4000	92%	90%
Y6000	92%	90%
Y8000	92%	90%
Y12000	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
Y2000	30	60	120	60	2-130
Y4000	25	55	95	55	2-100
Y6000	25	55	90	55	2-100
Y8000	20	50	90	50	2-95
Y12000	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.



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12.Flow

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

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)
Y2000	15	22	420	8400
Y4000	20	28	550	11000
Y6000	22	32	630	12600
Y8000	30	40	800	16000
Y12000	30	40	800	16000

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