

Cellular Glass (High Performance)

1. Product Introduction

High performance Cellular Glass is a rigid inorganic thermal insulating product, composed of uniform closed cells. It is made from pure glass and foaming agents, through high temperature foaming and annealing. It is characterized by lightweight, low thermal conductivity and high compressive strength, can be applied for pipe and equipment insulation, as well as tank bottom support and thermal isolation.



2. Properties (Comply with ASTM C552)

Physical Property		Unit	ZES 800	ZES 1000	ZES 1200	ZES 1400	ZES 1600	ZES 2400	Testing Method
Density		kg/m ³	120±8%	130±8%	140±8%	150±8%	160±10%	210±15%	ASTM C303
Thermal Conductivity	Avg. Value	W/(m·K) (10°C)	0.043	0.044	0.046	0.047	0.048	0.056	ASTM C177,AST M C518
	Highest Single Value		0.044	0.046	0.048	0.049	0.050	0.058	
Compressive Strength	Avg. Value	MPa	0.8	1.0	1.2	1.4	1.6	2.4	ASTM C165
	Lowest Single Value		0.55	0.69	0.83	0.97	1.10	1.66	
Flexural Strength		MPa	≥ 0.31	≥ 0.36	≥ 0.39	≥ 0.44	≥ 0.48	≥ 0.63	ASTM C203
Water Vapor Permeability		ng/(pa.m.s)	≤ 0.007						ASTM E96
Water Absorption by Vol		Vol%	≤ 0.5						ASTM C240
Flame Spread Index			≤ 5						ASTM E84
Linear Thermal Expansion Coefficient		1/°C	9×10 ⁻⁶						ASTM E228
Service Temp.		°C	-268~+480						
Dimension		mm	610×460mm						
Thickness		mm	Max 180mm					Max 125mm	
Component			Pure Glass, Asbestos Free						

Address: Yantang Road, North Dongxi Sencond Road, Wangdian Town, Xiuzhou District, Jiaxing City, Zhejiang Province

Tel: +86-573-83253845 Fax: +86-573-83253845

Postcode : 314011 Email : master@zhenshen.cn chunhua@zhenshen.cn Official Website: www.zhenshen.cn

3. Product Application

It is mainly used for tank bottom support and thermal insulation, pipe support and thermal insulation where high fire-proof property is required.

4. Packing and Storage

- (1) Carton packing, special packing is available on request.
- (2) During shipment, keep cartons tightly closed, keep stacks upright to protect from collision. If necessary, reinforcement can be applied.
- (3) Store in weatherproofing, dry and ventilated environment, no more than 6 layers stack is preferred.

5. Application and Cautions

- (1) Cellular Glass is fragile, shall be handled gently, avoid rolling or collision.
- (2) Cut it with saw during application.
- (3) For tank bottom application, leveling the base with ZES85 or fine dry sand.