



Cellular glass insulation HLC 120



Product Introduction

Huali cellular glass is a kind of new inorganic thermal insulation material, which is made of pure glass and mixed with appropriate amount of foaming agent, through high temperature tunnel furnace foaming and annealing cooling processing. HLC 120 insulation block is light weight, rigid material. The pipe sections or fittings, are fabricated from block, into wide range of shapes and sizes to satisfy industrial insulation requirements.

Application

- Cold & cryogenic pipeline
- Hot oil pipeline
- Low-temp pipe, equipment, vessels
- Chemical processing systems
- Heat transfer fluid systems
- High-temp pipes and equipments

Product Performance

- Non-flammable, asbestos free, non-toxic
- Anti-corrosion and chemical resistant
- High compressive strength
- Eco-friendly, sustainable
- Impermeable to water or moisture
- Long-term dimensional stability

Product Specification

HLC 120 cellular glass	
Block size	Block thickness
600x450	50-180mm
Fabrication pipe ID	Fabrication pipe thickness
≥22mm	25-80mm single layer ≥80mm double layers

Technical Data

Item	Unit	Test Data	Standard Data	Standard
Density	kg/m ³	125	≥119	ASTN C303-2016
Thermal conductivity	W/m.k	0.0402	≤0.050	ASTM C518-2015 (24°C)
Compressive strength	Kpa	973	≥827	ASTM C165-2012
Breaking strength	Kpa	597	≥386	ASTM C203-2008
Water absorption of volume	%	0.2	≤0.5	ASTM C552-2016
Average linear expansion coefficient	K ⁻¹	9.0×10^{-6}	/	ASTM E-2011 (-196°C-23°C)
combustion performance	/	non combustible		ASTM E136-2016
Service temperature	°C	-268~+482		
	/	no breaking no transformation		-196°C x 48h
	/	no breaking no transformation		400°C x 48h
Moisture permeability of water vapor	ng/ Pa.s.m	0.0056	≤0.007	ASTM E96-2016
PH value	/	7.86	/	ASTM C871-2011