

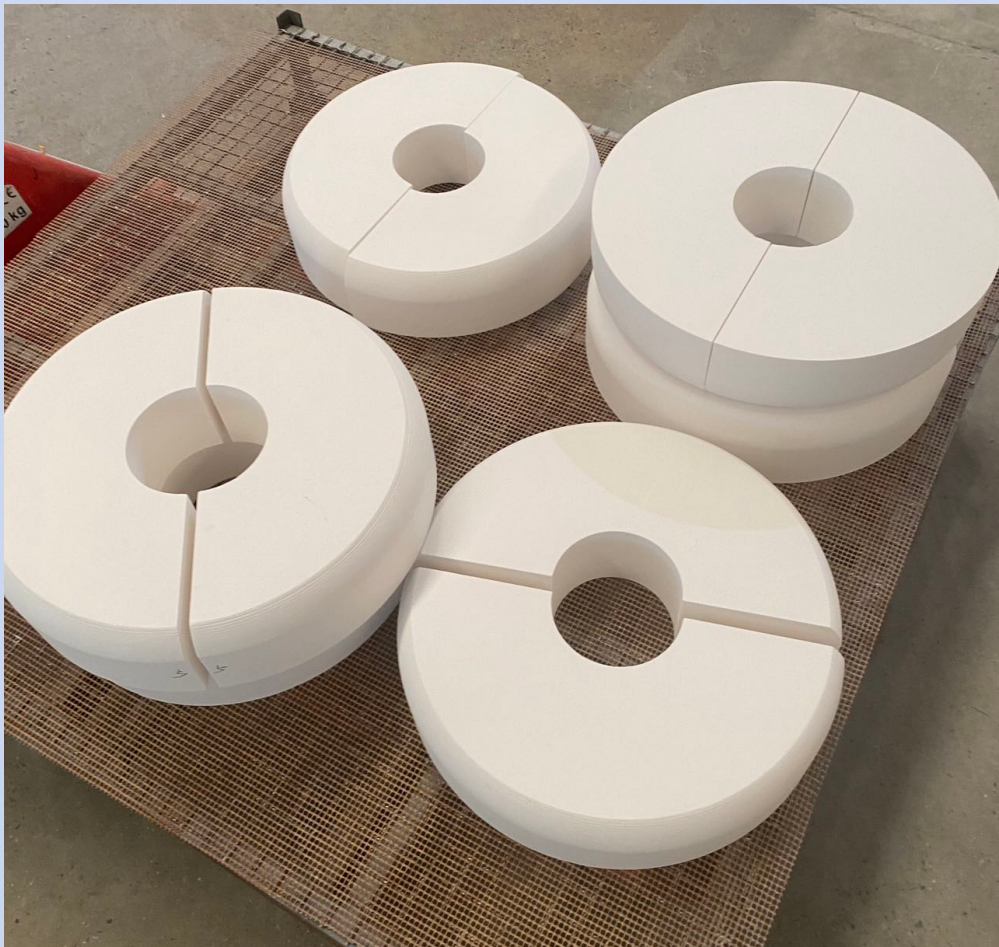
Ceramic Fiber Vacuum Formed shapes

Product Introduction

Ceramic fiber vacuum-formed shapes are lightweight, high-temperature insulation products made from ceramic fiber bulk by vacuum forming. They offer excellent thermal stability, low thermal conductivity, and high mechanical strength.

Custom molds allow precise shapes such as furnace doors, elbows, heater supports, chamber liners, and sealing parts. With inorganic or organic binders, the products maintain good strength and dimensional stability under heat.

Available in standard, high-purity, high-alumina, and zirconia grades, they withstand 1000°C–1400°C. Asbestos-free and environmentally friendly, they are widely used in metallurgy, petrochemical, ceramic, glass, and heat treatment industries as insulation and protective components.



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Application

Ceramic fiber vacuum-formed shapes are used in high-temperature equipment across metallurgy, petrochemical, ceramics, glass, heat treatment, and machinery industries. Common uses include furnace doors, pipe elbows, heater supports, chamber liners, observation ports, and seals, providing insulation, protection, and support to enhance thermal efficiency and equipment durability.



Advantages

- Excellent high-temperature resistance: Can withstand continuous temperatures from 1000°C to 1400°C.
- Superior insulation performance: Low thermal conductivity reduces energy loss and enhances energy efficiency.
- Lightweight with high strength: Reduces equipment load while maintaining structural stability.
- Customizable shapes: Meets complex design requirements, ensuring precise installation and sealing.
- Environmentally friendly and safe: Asbestos-free with low smoke and dust emissions.
- Good thermal shock resistance: Adapts to rapid temperature changes, extending equipment service life.

Ceramic Fiber Vacuum Formed shapes

Ceramic Fiber Vacuum Formed shapes technical data sheet

Properties	1260Ceramic fiber	1350Ceramic fiber	1430Ceramic fiber
Color	white	white	white
Classification Temperature°C	1260	1350	1430
Continuous Use Temperature, °C	1060	1150	1200
Density, kg/m3	300/320/350/400	300/320/350/400	300/320/350/400
Permanent Linear Shrinkage, %,24 hours			
950°C			
1060°C	< 4		
1150°C		< 4	
1200°C			< 1
Chemical Composition, %			
Alumina, Al2O3	42	47	34
Silica, SiO2	58	52	52
Zirconia oxide, ZrO2	-	-	13
Calcium oxide + Magnesium oxide, CaO + MgO	-	-	-
Other	< 1	< 1	< 1
Thermal Conductivity, W/m·K			
400°C	-	-	-
600°C	0.12	0.12	-
800°C	0.16	0.16	0.16
1000°C	0.23	0.23	0.23



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