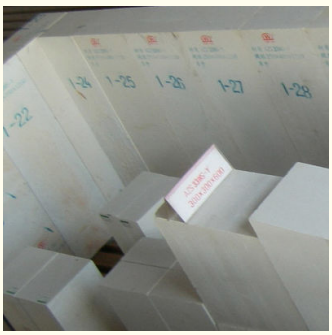
Heat-Resistant Fused AZS Bricks For Glass Furnace Crowns

Our Product Introduction

Basic Information

- Place of Origin: Zhengzhou ,China
- Brand Name: Rongsheng Xinwei
- Certification: ISO9001
- Model Number: Rongsheng
- Minimum Order Quantity: 1 Ton
- Price: 200-800USD
- Packaging Details: Packed on wooden pallets, with water-proof cover, and tightened with plastic/steel bandages
- Delivery Time: 10-20 Days
- Payment Terms: TT; L/C
- Supply Ability: 2000tons /month



Product Specification

- Highlight: **Glass Furnace Crowns AZS Bricks**, **Heat-Resistant AZS Bricks**, **Fused AZS Bricks**

Our Product Introduction

Product Description

Product Description of Fused AZS Bricks For Glass Furnace Crowns

Fused zirconia corundum bricks are not only used in high-temperature and severely corroded areas that come into contact with molten glass but are also widely applied in the upper structures of glass furnaces.

Fused zirconia corundum bricks, also known as AZS bricks, are named based on the ternary phase diagram of Al_2O_3-ZrO_2-SiO_2. The chemical components are listed in order of their content: Al_2O_3 is represented by "A," ZrO_2 by "Z," and SiO_2 by "S." The standard abbreviations use this format, such as AZS-33# for 33-grade fused zirconia corundum bricks, AZS-36# for 36-grade, and AZS-41# for 41-grade.

Fused zirconia corundum bricks are formed by melting pure alumina powder and zircon sand, which contains approximately 65% zirconia and 34% silica, in an electric furnace. The molten material is poured into molds and cooled into solid white blocks. Their mineral structure consists of an eutectic composed of corundum and baddeleyite along with a glass phase. From a phase composition perspective, they are a eutectic of corundum

and baddeleyite phases, with the glass phase filling the spaces between the crystals.

Fused zirconia corundum bricks are made by fully melting the raw materials, pouring them into molds, and allowing them to cool and solidify. The shrinkage cavities caused by volume contraction during solidification are critical considerations for their use. The casting methods for these bricks include standard casting, tilted casting, shrinkage-free casting, and quasi-shrinkage-free casting.

Code	Name	Characteristics And Applications
PT	Standard Casting	Standard casting method, with shrinkage cavities located at the bottom. Mostly used for the upper structures and other non-critical positions.
QX	Tilted Casting	Uses a tilted casting method, with shrinkage cavities located on one side. Mainly used for tank wall
WS	Shrinkage-Free Casting	Eliminates shrinkage cavities through precise casting to produce shrinkage-free products. Primarily used for like kiln roofs, tank walls, and areas subject to severe erosion.
ZWS	Quasi-Shrinkage-Free Casting	Similar to shrinkage-free casting, effectively reduces shrinkage cavities. Mainly used for tank wall b

Henan Rongsheng Xinwei New Materials Research Institute Co., Ltd

+86-18538509097 Jackyhan2023@outlook.com bricksrefractory.com

11th Floors, Building 6, China Central Electronic Commerce Port, Daxue Road, Zhengzhou, Henan, China