

High-Performance High Corrosion Resistance Durable Fused AZS Bricks For Glass Furnace Applications

Our Product Introduction

Basic Information

- Place of Origin: Zhengzhou, China
- Brand Name: Rongsheng Xinwei
- Certification: ISO9001
- Model Number: AZS33#, AZS36#, AZS41#
- 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: 20-30 Days
- Payment Terms: TT; L/C
- Supply Ability: 2000 tons/month



Product Specification

- Highlight: Durable Fused AZS Bricks,
High Performance Fused AZS Bricks,
High Corrosion Resistance Fused AZS Bricks

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Product Description

High-Performance High Corrosion Resistance Durable Fused AZS Bricks For Glass Furnace Applications

Fused AZS Bricks (Alumina-Zirconia-Silica Bricks) are the top choice for industries requiring high-performance refractory solutions in extreme environments. Commonly used in glass kilns, AZS bricks offer excellent resistance to high temperatures, corrosion, and wear, making them essential in areas where prolonged exposure to molten glass or other aggressive materials occurs.

What Makes AZS Bricks Exceptional?

AZS Bricks are named based on the three major components in their chemical structure: Alumina (Al_2O_3), Zirconia (ZrO_2), and Silica (SiO_2). The composition and purity of these materials ensure that AZS bricks can withstand the toughest conditions in industrial furnaces. The standard types of AZS bricks are categorized by their zirconia content:

AZS-33#: 33% zirconia

AZS-36#: 36% zirconia

AZS-41#: 41% zirconia

The higher the zirconia content, the greater the brick's resistance to thermal shock and corrosion, making AZS-41# ideal for the most demanding applications.



Key Features of Fused AZS Bricks:

Outstanding Corrosion Resistance: Fused AZS bricks are renowned for their ability to resist chemical attack from molten glass, making them highly suitable for contact zones in glass furnaces. This superior corrosion resistance significantly enhances the service life of the kiln.

Versatile Applications: While widely used in the bottom and sidewalls of glass furnaces, AZS bricks are also an excellent choice for the superstructure of glass kilns due to their ability to handle extreme temperature fluctuations and chemical exposure.

High-Quality Raw Materials: Made from pure alumina and zircon sand, the manufacturing process involves fusing these materials in an electric furnace, followed by casting into molds to create the final solid product. The result is a brick with exceptional durability and strength.

Manufacturing Process:

Fused AZS bricks are produced through an advanced **fusion casting method**. This involves melting the raw materials in a furnace and pouring the molten mixture into molds. During cooling, shrinkage occurs, leading to the formation of shrinkage cavities, which must be carefully managed to avoid impacting performance. Casting methods include **regular casting**, **tilted casting**, and **void-free casting**, depending on the specific application requirements.

AZS Brick Grades:

AZS-33#: Best suited for areas with lower temperatures and less exposure to aggressive materials.

AZS-36#: With a higher zirconia content, it offers enhanced resistance to corrosive materials, making it suitable for high-temperature furnaces.

AZS-41#: The highest zirconia content, designed for direct contact with molten glass and other harsh environments, offering the best performance in terms of corrosion resistance.

About Rongsheng Refractory

With over **20 years of experience**, **Rongsheng Refractory** is a leading manufacturer, supplier, and exporter of high-quality refractory materials. Our comprehensive product range includes **high alumina bricks**, **AZS bricks**, **magnesia bricks**, **corundum bricks**, **insulating bricks**, and a variety of unshaped refractory products such as **refractory castable**, **refractory cement**, **refractory mortar**, **refractory ramming mass**, **refractory plastic**, and more. Our products are designed to meet 90% of the refractory needs across various industries, including **Iron & Steel**, **Cement**, **Non-ferrous**, **Petrochemical**, **Glass**, and **Power**.

We take pride in our global reach, exporting refractory materials to more than **100 countries** and regions. Rongsheng Refractory has earned a solid reputation for providing reliable, high-performance solutions that improve the efficiency and durability of industrial processes.

Contact Us for Tailored Refractory Solutions

If you're looking for the best-in-class refractory materials like **Fused AZS Bricks**, tailored to your specific requirements, don't hesitate to reach out to us. Our professional team is ready to help you find the perfect solution to optimize your high-temperature operations.

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Join hundreds of satisfied customers worldwide by choosing **Rongsheng Refractory** as your trusted partner in high-performance refractory materials.



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