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Technical Data Sheet

AZS Fused Cast Block Scrap

Alumina-zirconia-silica, AZS 33 / 36 / 41, lumps and crushed

Description

AZS (alumina-zirconia-silica) fused cast block scrap is recycled glass-furnace refractory, recovered when glass tanks are rebuilt, then cut, cleaned of adhering glass and sorted by grade. It carries valuable zirconia (about 33–41% ZrO_2) with 45–51% Al_2O_3 and 12–16% SiO_2, in a very dense fused cast structure (bulk density about 3.4–4.0 g/cm³), so it is a cost-effective source of zirconia for new AZS castables and zirconia-bearing refractories. Ochnology Solution Pvt. Ltd. is a processor and supplier of AZS fused cast block scrap in AZS 33, 36 and 41 grades, in lumps or crushed, in India and worldwide, with a lab analysis for each lot.

Typical Applications

- Zirconia and alumina source for AZS castables and zirconia-bearing refractories
- Recycled raw material for glass furnace repair mixes
- Abrasive and wear-resistant refractory products

Specification

S. No.	Parameter	Specification	Test Method
1	**Zirconia (ZrO_2), %**	33 – 41	XRF / chemical analysis
2	**Alumina (Al_2O_3), %**	45 – 51	XRF / chemical analysis
3	**Silicon Dioxide (SiO_2), %**	12 – 16	XRF / chemical analysis
4	**$Na_2O + K_2O$, %**	≤ 1.5	XRF / chemical analysis
5	**Iron Oxide (Fe_2O_3), %**	≤ 0.5	XRF / chemical analysis
6	**Bulk Density, g/cm³**	3.4 – 4.0	Water displacement (ASTM C20)
7	**Size, mm**	50 – 300 lumps / 10 – 60 crushed	Sieve analysis
8	**Adhering Glass / Foreign Matter**	Free	Visual inspection

General Properties

Product	Recycled AZS fused cast block scrap, grades 33 / 36 / 41
Form	Very hard, dense, white to cream lumps
Packing	1 MT jumbo bags or bulk in containers

Handling and Storage

- Store on a clean, dry area; keep grades (33, 36, 41) separate and labelled
- Wear gloves and eye protection when handling and crushing sharp lumps
- For safety information, refer to the accompanying Safety Data Sheet (SDS)

Disclaimer: The information in this document is typical and is intended as a general guide. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own evaluation under end-use conditions before use.