

Alumina Zirconia Silicate

Description: Fused-cast AZS aggregate, also known as fused zirconia-corundum grain, belongs to the Al_2O_3 – ZrO_2 – SiO_2 system, abbreviated as AZS. According to zirconia (ZrO_2) content, fused-cast AZS blocks are classified into three grades: AZS-33, AZS-36, and AZS-41, containing approximately 33%, 36%, and 41% ZrO_2 , respectively.

Fused-cast AZS aggregate has become an essential refractory material for critical areas of glass-melting furnaces. It offers excellent resistance to corrosion and erosion by molten glass.

Chemical Composition (%)

Parameter	AZS Aggregate
Al_2O_3	≥ 50.00
ZrO_2	≥ 30.00
SiO_2	≤ 15.00
$\text{Na}_2\text{O} + \text{K}_2\text{O}$	≤ 1.30

Physical Properties

Parameter	AZS Aggregate
Bulk Density (g/cm^3)	≥ 3.75
Apparent Porosity (%)	≤ 1.2
Cold Crushing Strength (MPa)	≥ 200
Glass-Phase Exudation Temperature ($^{\circ}\text{C}$)	≥ 1400
Bubble Separation Ratio ($1300^{\circ}\text{C} \times 10 \text{ h}$)	≤ 1.2

Product Information

Size	Available upon request.
Packing	In 1.00 MT, 1.25 MT or 1.35 MT bulk bags; 25/50 kg bags in bulk bags or on wrapped pallets.
Origin	Henan Province, China.