

Fused Zircon Mullite

Description: Zircon mullite is synthesized by high-temperature melting of industrial alumina and zircon sand in a three-phase electric arc furnace. It is primarily used as a raw material for alumina-zirconia-carbon slide gates and long nozzles in the metallurgical industry, and is also suitable for glass-industry applications.

Chemical Composition (%)

Parameter	FZM-33 Req.	FZM-33 Typical	FZM-35 Req.	FZM-35 Typical
ZrO ₂ + HfO ₂	≥ 33	33.8	≥ 35	35.25
Al ₂ O ₃	45–50	49.06	44–48	47.60
SiO ₂	16–19	16.07	16–19	16.29
Fe ₂ O ₃	≤ 0.3	0.10	≤ 0.3	0.17

Physical Properties

Parameter	FZM-33 Req.	FZM-33 Typical	FZM-35 Req.	FZM-35 Typical
Bulk density (g/cm ³)	≥ 3.6	3.69	≥ 3.6	3.70
Apparent porosity (%)	≤ 3.0	1.32	≤ 3.0	1.35

Product Information

Size	0–1 / 1–3 / 3–6 mm; 6×14 / 14×28 / 28×40 mesh; –200 / –300 mesh.
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.