

Sintered Mullite

Description: High-purity sintered mullite provides high refractoriness and is used in castables for the steel and glass industries, kiln furniture and high-performance refractory bricks and shapes. High-purity Bayer-process Al_2O_3 is blended with high-purity kaolin, wet-milled, vacuum-extruded and calcined in shaft or rotary kilns to develop a stable mullite structure.

Chemical Composition (%)

Parameter	Req.	M47	M60	M70
Al_2O_3		42–45	58–62	70–73
SiO_2		49–55	33–38	25–28
Fe_2O_3	$\leq$	1.5	1.5	1.6
TiO_2	$\leq$	3	3	3

Physical Properties

Parameter	Req.	M45	M60	M70
Bulk density (g/cm^3)	$\geq$	2.55	2.65	2.75
Apparent porosity	$\leq$	3	3	3
Water absorption	$\leq$	0.5	0.5	0.5

Product Information

Size	0–1 / 1–3 / 3–5 mm; other sizes on 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.