

Lightweight mullite castable



- $\text{Al}_2\text{O}_3 \geq 45\%$
- Bulk density : $1.2\text{-}1.8\pm0.1 \text{ g/cm}^3$
- Max. operating temperature: 1300-1500°C
- Compressive strength at room temperature $\geq 4\text{MPa}$

Application:

lightweight yet high strength, energy efficient in heat preservation and stable. Used for linings of industrial kilns, thermal equipment and flues.

Technical Data:

Project Index		ZKM - 1.8	ZKM - 1.5	ZKM - 1.2
Aggregate		Lightweight Mullite Aggregate	Lightweight Mullite Aggregate	Lightweight Mullite Aggregate
Al_2O_3 /%		≥ 55	≥ 50	≥ 45
SiO_2 /%		≤ 40	≤ 45	≤ 50
Maximum service temperature /°C		1500	1400	1300
Bulk density /g/cm ³	After drying at 110°C×24h	1.8 ± 0.1	1.5 ± 0.1	1.2 ± 0.1
Cold compressive strength /MPa $\geq$	110°C×24h	10	5	4
	1400°C×3h	25 (at 1350°C)	20 (at 1300°C)	8 (at 1200°C)
Linear change after firing /% $\leq$	1400°C×3h	± 1.0 (at 1350°C)	± 1.0 (at 1300°C)	± 1.0 (at 1200°C)
Thermal conductivity /W/m·K $\leq$	500°C	0.45	0.40	0.30
	800°C	0.55	0.50	0.35