

MUBS - Fused Mullite

Fused Mullite (Al_2O_3 - SiO_2) for refractories

MUBS is a fused mullite obtained from fusion silica sand and alumina in an electric arc furnace. It is less pure than MUB but also presents low thermal expansion and high thermal shock resistance that make MUBS an excellent material for investment casting and other refractory applications.

Typical Physical Properties

Cristal Structure	Melting Point	Color	Specific Gravity	Average Cristal Size	Reversible Linear Expansion	Apparent Porosity	Apparent Specific Density
Orthorhombic	1,850° C	Grey	3.13 g/cc	2,000 μm	0.85% at 1,400° C	3.0%	3.07 g/cm ³

* App. Porosity & App. Specific Density by ASTM C 20-00

Chemical Analysis by XRF (%)

Al_2O_3	SiO_2	Fe_2O_3	Na_2O	CaO
73.81	25.03	0.31	0.53	0.23

Grit Sizes

Size (astm)	Size (mm)
3/4" / 5/16"	19.1 - 8.00
5/16" / 4	8.00 - 4.75
4 / 10	4.75 - 2.00
10 / 20	2.00 - 850 μm
10 / 40	2.00 - 425 μm
20 / 40	850 - 425 μm
40 / 200	425 - 75 μm
TPF II	- 212 μm
200 MF	- 75 μm
325 MF	- 45 μm

* Other grit sizes upon request.

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