

Fused Mullite

The New Durable Acid Resistant Brick for Chlorinator Hot Zones

Chemical Composition:

Al ₂ O ₃ :	67.3%
SiO ₂ :	30.1%
TiO ₂ :	0.2%
Fe ₂ O ₃ :	0.7%
K ₂ O+Na ₂ O:	0.3%

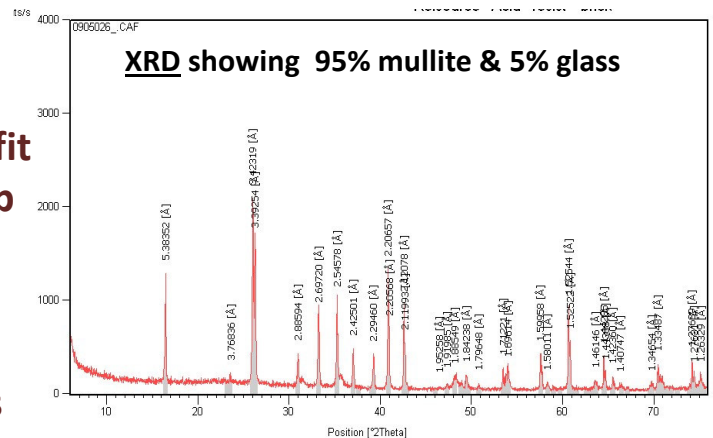


Properties:

- Density (ASTM C134)	2.5 g/cu cm
- Porosity (ASTM C830)	3.6%
- Water absorption (ASTM 373)	2.2%
- Cold compressive strength (ASTM C133)	85 MPa
- Modulus of rupture (ASTM F417)	17.5 Mpa
- Hot modulus of rupture	11.5 Mpa
- Acid resistance (boiling 20% HCl);	99.8%
- Coefficient of thermal expansion (25-1000 °C)	4.7 x10 ⁻⁶ / °C
- Excellent thermal shock resistance	

Capabilities:

- Large custom casting shapes
- Diamond cut final shapes for tight fit
- Prefit & layout approval before ship
- Huge casting facilities for scale up
- Casting from melt for consistency
- Excellent corrosion / erosion in chlorinator hot zone environments



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CeraMaterials is a major supplier of multiple lines of refractory materials which include graphite & carbon insulation, ceramic fiber materials, carbon composites and specialty refractories, including fused cast products.