

MarkeTech Repton 136 Aluminum Oxide

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Brand 136 features: Molding-structural.REPTON setter tiles, kiln furniture, and special fixtures are lightweight, ridge, and high strength ceramics that resist distortion and spalling, even when thermal cycled many times. They are available with a smooth or a unique textured surface that permits pinpoint contact with the load. Sticking can be eliminated as well as providing a surface that breathes, allowing gasses from the ceramic to escape.Applications include firing ceramic capacitors, SOFCs, PZTs, hard and soft ferrites, co-fired substrates and powdered metals. REPTON is available in a wide range of compositions that include a range of alumina, mullite/alumina, zirconia, cordierite, magnesia, and aluminum titanate.

Order this product through the following link:

http://www.lookpolymers.com/polymer_MarkeTech-Repton-136-Aluminum-Oxide.php

Physical Properties	Metric	English	Comments
Density	3.90 g/cc	0.141 lb/in ³	
Porosity	0.00 %	0.00 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	>= 392 MPa	>= 56900 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	6.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	3.33 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 300 $\text{Å}^\circ\text{C}$	@Temperature 572 $\text{Å}^\circ\text{F}$	
	8.00 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.44 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 900 $\text{Å}^\circ\text{C}$	@Temperature 1650 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	99.6 %	99.6 %	

Descriptive Properties	Value	Comments
Spall Resist	550 $\text{Å}^\circ\text{C}$	

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