

MarkeTech Repton EXP 22 Magnesia MgO

Category : Ceramic , Oxide , Magnesium Oxide

Material Notes:

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-EXP-22-Magnesia-MgO.php

Physical Properties	Metric	English	Comments
Density	3.40 g/cc	0.123 lb/in ³	
Porosity	0.10 %	0.10 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	>= 89.0 MPa	>= 12900 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	11.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	6.22 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 300 $\text{Å}^\circ\text{C}$	@Temperature 572 $\text{Å}^\circ\text{F}$	
	13.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	7.33 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 900 $\text{Å}^\circ\text{C}$	@Temperature 1650 $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
MgO	100 %	100 %	

Descriptive Properties	Value	Comments
Spall Resist	350 $\text{Å}^\circ\text{C}$	

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