

MarkeTech Repton 931 Cordierite Mg-Al-Si Oxide

Category : Ceramic , Oxide , Aluminum 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-931-Cordierite-Mg-Al-Si-Oxide.php

Physical Properties	Metric	English	Comments
Bulk Density	1.40 g/cc	0.0506 lb/in ³	
Density	2.50 g/cc	0.0903 lb/in ³	calculated from bulk density after subtracting pore volume
Porosity	44 %	44 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	>= 19.0 MPa	>= 2760 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	0.100 $\mu\text{m/m-}^\circ\text{C}$	0.0556 $\mu\text{in/in-}^\circ\text{F}$	
	@Temperature 300 $^\circ\text{C}$	@Temperature 572 $^\circ\text{F}$	
	2.00 $\mu\text{m/m-}^\circ\text{C}$	1.11 $\mu\text{in/in-}^\circ\text{F}$	
	@Temperature 900 $^\circ\text{C}$	@Temperature 1650 $^\circ\text{F}$	

Descriptive Properties	Value	Comments
Spall Resist	750 $^\circ\text{C}$	

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