

Aremco AREMCOLOX™ 502-676 Machinable Magnesium Oxide

Category : Ceramic , Machinable Ceramic , Oxide , Silicon Oxide

Material Notes:

Full-fired, fine grain, high purity MgO ceramic. Inert to molten metals, slags, superconductors. Broad line of standard crucibles. Custom parts made to print.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-AREMCOLOX-502-676-Machinable-Magnesium-Oxide.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.45 g/cc	3.45 g/cc	
Porosity	4.5 %	4.5 %	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	5.5	5.5	
Flexural Strength	241 MPa	35000 psi	
Compressive Strength	827 MPa	120000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	13.9 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	7.70 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Thermal Conductivity	2.16 W/m-K	15.0 BTU-in/hr-ft ² - $^\circ\text{F}$	
Maximum Service Temperature, Air	1800 $^\circ\text{C}$	3270 $^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Dielectric Constant	9.6	9.6	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	5.91 kV/mm	150 kV/in	

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