

General Properties

Macor is a machinable glass ceramic capable of withstanding continuous temperatures up to 800 °C and peak temperature spikes up to 1000 °C. Macor's CTE matches most metals and sealing glasses and is non-wetting.

Applications

- Vacuum feed-trough insulator and coil support.
- Vacuum furnace spacers and headers.
- Oxyacetylene torch nozzles.
- Aerospace.
- Sputtering.
- Sealing and joining.
- Metalizing.
- Hermetic seal in vacuum.

Physical Properties

Property	Unit	Macor
Color	–	white
Maximum Use Temperature	°C	1000
Density	g/cm ³	2,52
Porosity	%	0
Flexural Strength	MPa	94
Dielectric Strength	kV/mm	40
Specific Heat	KJ/kg °C	0,79
Poisson's Ratio	—	0,29
Thermal Expansion	x10 ⁻⁶ /K	9,3
Vickers Hardness	—	400

NOTE: This data shows typical values and does not represent a specification.

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