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Comparison chart of ceramics

Céramic type	Electrical insulation	Thermal insulation / (conductivity)	Max temp. of use (no load) °C	Thermal shock resistance	Wear resistance	Mechanical shock resistance	Corrosion resistance
Alumina	+++	(++)	1900	+	+++	+	+++
Aluminium nitride	+++	(++++)	1200	++	++	+	++
Zirconia MgO-PSZ	+	+++	1000	+++	+++	+++	+++
Zirconia Y-TZP	+	+++	2000	+++	++++	++++	+++
Quartz	+	+++	1100	+++	----	----	+
Silicon carbide (sintered)	conductive	(+++)	1800	++++	++++	++	++++
Silicon nitride	++	(++)	1400	+++	++++	+++	+++
Macor®	+++	+++	1000	+++	----	----	----

+ : poor

++ : acceptable

+++ : good

++++ : excellent

---- : non applicable

Note regarding « Thermal insulation / (conductivity) » : information given when comparing ceramics only. Apart from aluminium nitride, and to a lower degree sintered silicon carbide, these ceramics are excellent insulating materials compared with metals.

Information given for information only.

It does not constitute a formal commitment from our company.

For further information, please contact us.