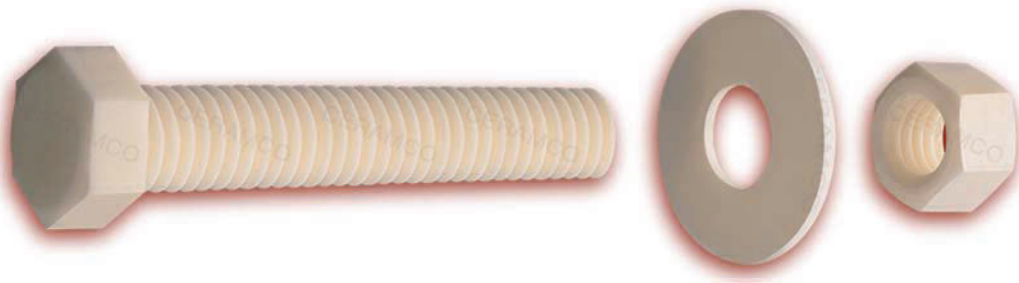


Ceramco's Solid Ceramic Fasteners – Performance Summary



Out-performing Metals & Plastics in Extreme Environments

High Temperature



The ability to withstand constant high temperature exposure and resist heat transfer make solid ceramic fasteners the ideal solution for either or both environmental conditions.

Corrosion



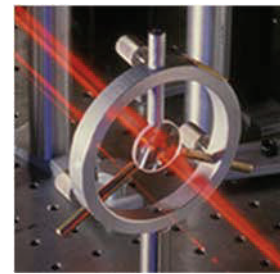
Solid ceramic fasteners neither oxidize nor degrade. They possess exceptional resistance to corrosive chemicals and show virtually no surface wear resulting from the exposure.

High & Low Voltage



Solid ceramic fasteners can contain voltage, as well as not interfere with it. They are non-conductive and inert, yet possess a high mechanical strength.

Leak-Free, Vacuums



Solid ceramic fasteners provide leak free connections, hold a vacuum and keep contaminants out. They are a non-magnetic, non-porous, non out-gassing, dust free fastener solution.

Comparison to Other Materials

Material	Maximum Service Temperature	Thermal Conductivity	Electrical conductivity	Volume Resistivity	Coefficient of Thermal Expansion
Alumina (99.8%)	Very High	Very Low	Very Low	Excellent	Low
Zirconia TZP*	Moderate	Very Low	Very Low	Excellent	Very Low
Molybdenum	Very High	Very High	Low	Poor	Very Low
Nylon 6,6	Very Low	Very Low	Very Low	Excellent	Low
Stainless Steel	Moderate	High	Moderate	Very Poor	Very High
Titanium	High	Moderate	High	Very Poor	Moderate

* Yttria Stabilized

NOTE: These ratings are averages intended for quick comparison only. No guarantee should be assumed or is implied.

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