

CeramTec SL200B Silicon Nitride

Category : Ceramic , Nitride

Material Notes:

SL200B ceramic material was designed especially for use in the field of welding technology. SL200B is a 100 bar gas-pressure sintered silicon nitride (Si₃N₄) with impressive properties. It boasts decisive advantages compared to zirconium oxide or even metal: extreme hardness and flexural strength, a high level of thermal shock resistance, electrical insulation, temperature resistance, and high tensile and compressive strength make SL200B silicon nitride ceramics a material that withstands the working conditions of projection welding and ensures a significantly longer service life. For comparison: while commonly used ceramic welding pins exhibit service lives 40 times that of metal, the service life of SL200B silicon nitride ceramics is an additional five times greater than that of centering pins made from zirconium oxide.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CeramTec-SL200B-Silicon-Nitride.php

Physical Properties	Metric	English	Comments
Density	3.21 g/cc	0.116 lb/in ³	

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	1650	1650	HV
Flexural Strength	850 MPa	123000 psi	
Compressive Strength	3000 MPa	435000 psi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	21.0 W/m-K	146 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	1300 - 1600 °C	2370 - 2910 °F	

Descriptive Properties	Value	Comments
Ra = Arithmetic Mean Roughness Value (µm)	0.05	
Thermal Shock Resistance R1 (K)	700	

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