Ceramabond 835

Beschreibung

Ceramabond 835 is a zirconium oxide based 1-K high temperature adhesive. Minimal shrinkage during curing and exceptional resistance to thermal shock, chemical reactions and moisture are the distinguishing features of this adhesive.

Ceramabond 835 is used in the processing of quartz halogen lamps and metal sockets in high performance production. The expansion during curing is less than 1%. This keeps glass from shattering during the curing and there also occurs no outgassing.

Technical Data

Characteristics	Ceramabond 835
Main Components	Zirconium Oxide
Max. Temperature	+1370 °C
Viscosity	200 - 400 g/cm-s
Spec. Weight	2.25 – 2.35 g/cm^3
CTE	7.2 cm/cm/°C x 10^{-6}
Dielectric Strength	4.37 KV/mm at RT
Spec. Resistivity	10^9 Ohm/cm at 540 °C
Torque Strength	67791 N/mm
Moisture Resistance	Good
Alkali Resistance	Good
Acid Resistance	Good
Oxidation Resistance	Good
Shrinkage	< 1.0 %
Hardness	4 Moh's Scale

Handling

Smooth surfaces are difficult to bond, so if possible they should be sandblasted or etched. 1-K adhesives tend to settle, so they should be stirred thoroughly before use. Ceramabond 835 can be applied with a spatula, trowel, syringe or automatic dosing device.
Apply a thin layer of adhesive to any surface. Join the parts together and wipe away any excess adhesive with a damp cloth. Fix the bonded parts with a clamp or similar tool to apply even pressure to the bond.

Hardening

- 1 Hour air cure at room temperature
- 2 Hours heat cure at 90 °C

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