

AREMCO NEWS

Aremco-Bond™ 586 High Temp Resistor Potting Compound Now Available

August 23, 2016

Summary

Ceramacast™586, a new high temperature ceramic potting cement developed by Aremco Products, Inc., is a zirconium-silicate based, phosphate-bonded, chemically-setting ceramic compound ideal for bonding and potting high temperature electrical components including power resistors, infrared heaters, cartridge heaters, gas igniters, halogen lamps, and temperature sensors for applications to 2800°F(1535°C).



Features

Ceramacast™ 586 exhibits exceptional electrical and mechanical properties. The dielectric strength and volume resistivity are 125 volts/mil and 10^9 ohm-cm, respectively. The compressive strength is 8,000 psi and the coefficient of thermal expansion (CTE) is 2.7(4.9) ppm/°F(°C).

Ceramacast™586 is supplied as a powder and is mixed with water to a paste-like consistency in a ratio of 100 parts powder to 13-15 parts water by weight. It is easily dispensed through pneumatic dispensing equipment and it provides a one-hour pot life and hardening time of 6-8 hours. A full cure is achieved by step curing for 1-2 hours each at 200°F and 350°F, respectively, or setting at room temperature for 24 hours. Cured product exhibits a porosity of less than 2% and zero shrinkage. At 1000°F, the shrink rate is less than 0.3%.

Ceramacast™ 586 is supplied from stock in quart, gallon and five gallon pails. It is one of a series of Ceramacast™ products that have been developed for ultra high temperature electrical assembly applications.

Please contact Aremco's Technical Sales Department for more information about this advanced adhesive.

Technical technical@aremco.com
Pricing quotes@aremco.com
Orders orders@aremco.com

If you would like not to receive these informational notices, reply to this email with the word "remove" as the subject line.

707-B Executive Boulevard, Valley Cotiage, NY10989 8452680039