

# ALUMINA BASED ADHESIVES

Cures at Room Temp. to Bond, Pot, Seal and Protect

## 3000°F - RESBOND™ 908

### Electrically Resistant - Thermally Conductive

New, High Purity, Alumina based adhesive incorporates a unique, catalytic curing system.

Just mix the adhesive and it's activator to form a readily dispensable, smooth, creamy paste.

It will not clog delicate dispensing needles and is suitable for any application requiring micro drops or several ounces of material.

Resbond™ 908 has excellent electrical resistance, moisture resistance and thermal conductivity.

Resbond™ 908 will become water insoluble after use (or post cure) at temperatures of 250°F - 300°F.

#### Users Report:

- 908 Successfully filled a long tubular probe, providing long term electrical isolation and moisture proofing for a electronic sensor.

**Applications include** bonding, potting and encapsulating delicate electronic assemblies, sensors, instruments and general purpose high temp. applications.

It will satisfy many difficult application requirements and is ideal for many critical, electronic applications.



908 Bonds & Protects Sensors



903HP Bonds a High Strength Ceramic Fitting for use at 2650°F

## 3250°F - RESBOND™ 903HP

### Bonds Dense Hi Strength Ceramics

Resbond™ 903HP is an ultra high temperature, Alumina Adhesive.

Developed for high strength bonding of any combination of dense non-porous ceramics, glass and or non-reactive metals.

Resbond™ 903HP is a smooth, creamy paste that can be brushed, troweled or sprayed on.

Just re-mix and apply.

Handling strength is obtained, after an initial cure at 250°F. A complete cure occurs in 1 hour at 600-700°F.

Resbond™ 903HP is usable to 3250°F continuously.

It has excellent resistant to liquid metals, oxidizing and reducing atmospheres, most chemicals and solvents.

Resbond™ 903HP has excellent electrical properties.

#### Users Report:

- 903HP bonds thermocouples to high alloy steel and withstands repeated thermal cycling from -100°F to +500°F.
- 903HP was easily sprayed onto stainless steel to form a dielectric layer for an industrial heater, used at 1400°F.

Resbond™	903 HP	908
Continuous Use Temp.	3250°F	3000°F
Base	Al <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>
Compressive Strength (psi)	7000	3000
Flexural Strength (psi)	3500	1100
Thermal Expansion (x10 <sup>-6</sup> /°F)	4.00	4.50
Thermal Cond. (BTU-in/Hr. Ft <sup>2</sup> -°F)	40	15
Dielectric Strength (volts/mil.)	250	200
Volume Resistivity (ohm-cm)	10 <sup>10</sup>	10 <sup>10</sup>
Components	1	2
Color	White	White
Consistency	Paint	Paste
Cure Temperature	600°F	R. T.

#### Availability:

Cat. No.	Description
Resbond 903HP-1.....	Pint
Resbond 903HP-2.....	Quart
Resbond 903HPT-1.....	Thinner (Pint)
Resbond 908-1.....	Pint
Resbond 908-2.....	Quart