

GRAPHITE HI-TEMP ADHESIVES

For Electronic, Metallurgical and Structural Applications

5400°F - 931 Graphite Adhesive

99% Pure Graphite

Bonds Graphite or carbon components for use to 3000°C with 99% pure graphite.

Simply mix the 931 Graphite Powder with its activator to a creamy paste. Apply and cure at 250°F.

Resbond 931 forms 99%, graphite to graphite bonds with strengths measuring in excess of 2500 psi.

Has excellent adhesion to graphite and porous surfaces.

It is electrically conductive and resistant to reducing atmospheres, most chemicals and solvents. Will not contaminate furnace atmospheres.

Resbond 931 is ideal for repairing broken or cracked graphite trays, components, fixtures, dies, filling and rebuilding crevices, cracks, worn areas and bonding graphite cloths, felts, boards, etc.

(Note: Graphite will oxidize above 700°F-800°F in air atmospheres.)

Users Report:

Resbond 931 repaired a 20" dia. x 24" high, cracked, induction heating susceptor. The susceptor heated uniformly after the repair. Resbond 931 Graphite adhesive doubled the life of this expensive part.

2500°F - 931C Ceramic Bonded Graphite

Resbond 931C ceramic bonded graphite, coats, bonds and protects to 3000 °F.

Its easy to use. Just re-mix, apply and let dry. 931C cures at room temperature without heat.

Has excellent adhesion to graphite, metals, glass, ceramics and non-porous parts. Offers electrical conductivity and resistance to most chemicals and solvents.

Resbond 931C is ideal for bonding graphite to non porous surfaces, forming electrically conductive bonds or for use in any high temp application requiring the thermal conductivity of graphite and the oxidation resistance of ceramics.

2500°F - 931P Graphite Putty

Now graphite in a smooth, creamy, putty form. Conveniently packaged in dispenser tubes and caulking cartridges.

Just squeeze to apply and let dry.

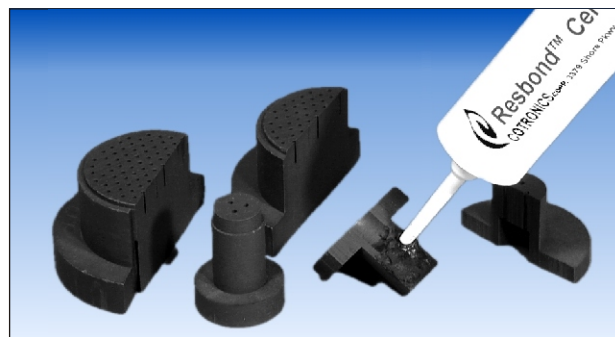
Use as a filler, gasket material or as an adhesive for bonding, filling, repairing and sealing.

Graphite Binder & Sealer

Resbond 931-4 Binder and Sealer can be used to reduce the porosity, seals surfaces and increase the wear resistance and durability of graphite parts.

Simply saturate the surface with 931 binder and heat cure at 250°F (minimum). Repeated coats can be used if required.

Users Report: Resbond 931 Binder sealed the porous surface of graphite parts. They were successfully used in fuel cells.



931 Provides a Pure Graphite bond in a Complex Graphite assembly



Easy to use Graphite Putty Bonds, Seals and Fills

RESBOND	931	931C	931P
Major Constituent	Graphite	Graphite	Graphite
Temp Limit °F (Inert Atm.)	5400	2500	2500
Purity %	99	90	88
Thermal Expansion (x10 ⁻⁶ /°F)	4.1	4.1	4.1
Thermal Conductivity BTU in / Hr °F Ft ²	60	40	35
Compressive Strength (psi)	3000	4200	3750
Flex. Strength (psi)	1500	1800	1350
Dielectric Strength	Conductive	Conductive	Conductive
Color	Black	Black	Black
Components	2	1	1
Consistency	Paste	Paste	Paste

Cat No.	Size
931-1	Pint
931-2	Quart
931-3	Gallon
931-4	Binder-Sealer (Pt.)
931C-1	Pint
931C-2	Quart
931C-3	Thinner- (Pt.)
931P-1	3 Pack 4 oz Tubes
931P-2	11 oz Caulking Tubes