



**CERAMATERIALS**

*"Your One Stop Shop for Thermal Processing"*

## Graphite Adhesive-1 part EBS-1X

- EBS- 1X Graphite Adhesive is a one part, carbon filled/reinforced, high temperature adhesive
- Used to bond, fill & repair CFC & graphite components used in reducing atmospheres to 5400°F (2980 °C).
- EBS-1X is an easy-to-apply, dispensable adhesive that contains no asbestos or volatile organic solvents.
- Package types (cartridge, cans, pails, drums) make for ease of handling & dispensing to minimize waste.

### Physical Properties

- 100% solids, no VOC's or Hazmat issues
- Appearance = thick, pasty thixotropic liquid.
- Mixed viscosity = 15,000 cps
- Percent carbon filler = 40%
- Coefficient of Thermal Expansion =  $4.1 \times 10^{-6}/\text{O}^\circ\text{F}$
- Carbon char yield = 78%
- Max temperature = 5400°F (2980°C)

### Sizes Available

- Pints, quarts, gallons & 5 gallon
- Caulking tubes (25 oz.)



### Directions for use:

- It is recommended to apply EBS-1X to both clean dry surfaces, applying minimal pressure to ensure a uniform film is formed between joined surfaces.
- A strong mechanical bond is achieved after curing for 30 minutes at 120°C.
- It is recommended to allow the bond to fully set to achieve maximum moisture resistance & tensile-shear strength which has been measured in the range of 1100 psi at room temperature.
- Application: Caulk gun, spatula / brush by hand (can be thinned with solvent if desired)
- Clean-up: MEK, acetone, glycol ether solvents, generally polar solvents clean up best
- 4mil thick film: Touch dry in 30 minutes at 120°C