



**CERAMATERIALS**



*"Your One Stop Shop for Thermal Processing"*

## **Graphite Coating (GTC-LV3)**

**GTC-LV3 is a low VOC solvent based durable coating.  
Designed to seal porous surfaces in 1 coating.  
Effective in sealing rigid graphite insulation / felts and porous edges & surfaces of graphite and carbon composite components.  
Superior abrasion resistant, durable coating.  
Finer surface finish for metal casting applications  
High carbon yield (60%)**

### **Physical Properties**

**50% solids & flammable**

**Appearance = thin black fluid**

**Mixed viscosity = ~200 cps**

**Percent carbon filler = 30%**

**Coefficient of Thermal Expansion =  $4.0 \times 10^{-6}/^{\circ}\text{F}$**

**Carbon char yield = 60%**

**Max temperature = 5400<sup>o</sup>F (2980<sup>o</sup>C)**

### **Sizes Available**

**Pints**

**Quarts**

**Gallons**

**5 gallon**

**55 gallon**

- 1. Thoroughly stir before & during use to insure that the solids stay suspended (every 15 minutes or so).**
- 2. Apply by spraying, brushing, roller or dipping. Typically one coating is required to achieve designed performance & sealing.**
- 3. For safety, apply in a well ventilated area.**
- 4. Large areas & thicker coatings should dry at room temperature for up to 30 minutes to allow any residual solvent to evaporate.**
- 5. Heat coated surfaces to 150<sup>o</sup>C ( 300<sup>o</sup>F ) for 30 minutes or more depending on coating thickness to harden**
- 6. Apply graphite adhesive to the dried coating surface.**
- 7. Heat in protective atmosphere or vacuum at 2<sup>o</sup>F per minute to 600F or higher to fully cure.**