



**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.