

# **C**M CeraMaterials™

*Graphite & Ceramic Insulation, CFC, Moly & Alumina*

## **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 =  $4.0 \times 10^{-6}/^{\circ}\text{I}$
- Carbon char yield = 60%
- Max temperature = 5400°F (2980°C)

### Sizes Available

- Pints
- Quarts
- Gallons
- 5 gallon
- 55 gallon



### Instructions:

- 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°C (300°F) for 30 minutes or more depending on coating thickness to harden
- 6) Apply graphite adhesive to the dried coating surface.
- 6) Heat in protective atmosphere or vacuum at 2°F per minute to 600F or higher to fully cure.