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Titanium Carbide (TiC) Water-Based Coating

Type T is a relatively-soft, washcoat-type of Titanium Carbide coating that provides a high-purity (>99%) layer which is usable in vacuum and inert atmospheres to >2000 C (>3632 F). This coating should NOT be used in air atmospheres.

Key Attributes

- Very stable coating on Graphite substrates
- Stops Graphite diffusion into parts or topcoatings
- Applies like housepaint brush, dip, or spray
- Safe, Water-Based

Ideal Use

- Coating Graphite crucibles, molds, and trays
- Barrier coating to carbothermic reduction of oxide coatings in vacuum (typically extends use-temperatures of oxide topcoatings by 100-200 C)

Use Notes

- 1. Resuspend if needed. Can dilute with water if desired.
- 2. Clean surfaces to be painted of any oils dirt, scale, etc.
- 3. Apply 1-3 layers by brush, dip or air-spray, drying after each layer
- 4. Allow to dry thoroughly before use.

Safety Information

- Consult SDS before use.
- Avoid breathing of spray/vapors.
- For Industrial Use only.



Specifications

Active Ingredient >99% TiC Max Use Temperature Inert, Vac >2000 C (3632 F) Air = NOT RECOMMENDED

Use Atmosphere	Vacuum or Inert
Fired Composition	>99% TiC
Liquid Carrier	Water
Binder Phase	Cellulosic
Brookfield Viscosity (cps)	270 @2/60
Specific Gravity	1.5
Color	Black
Shelf Life (months	>12
Coverage (ft²/gal)	100 to 400
Coating pH	7-8
H F R Ratings	1-0-0
Substrate Use	All

Sizes and colors

Type T is a black colored paint.

Standard Size: 1 gallon wide-mouth Nalgene 1 quart wide-mouth Nalgene

CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL

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