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Highest Purity Zirconium Oxide (ZrO₂) Coating

Type Z is a relatively-soft, washcoat-type of Zirconium Oxide (ZrO₂) coating that provides high-purity 4% CaO stabilized ZrO₂ which is usable in vacuum and inert atmospheres to 2000 C (3632 F). This coating should NOT be used in air atmospheres.

Key Attributes

- Provides, in a water-based paint, the properties of ZrO₂ lowest thermal conductivty; good high-temperature stability with molten metals, glasses, slags, and salts; inert barrier for reactions, diffusion bonding, brazing etc.
- Applies like housepaint (brush, dip, air-spray)
- Easily applied by air spraying on to hot or cold graphite crucibles and molds
- Good with highly reactive molten metals
- Safe, Water-Based

Ideal Use

- Graphite crucibles and molds
- Anti-stick with diffusion bonding

Use Notes

- 1. Resuspend if needed. Can dilute with water or with YZ Binder/Thinner 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 like ordinary house paint, drying after each layer
- 4. Allow to dry thoroughly at room temperature before use.

Safety Information

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



Specifications

Active Ingredient Max Use Temperature	ZrO_2^* (CSZ)
•	C) 3632 F / 2000 C
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•	TRECOMMENDED
Use Atmosphere	Vacuum or Inert
•	
Fired Composition	>99% CSZ
Liquid Carrier	Water
Binder Phase	Cellulosic
Brookfield Viscosity (cps) 2500 @4/60
Specific Gravity	2.17
Color	Cream
Shelf Life (months	>12
Coverage (ft²/gal)	100 to 400
Coating pH	7-8
H F R Ratings	1-0-0
Substrate Use	All
* with 4 wt% CaO stabilizer	

Sizes and colors

Type Z is a cream colored paint.

Standard Size: 1 gallon Nalgene container

CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL

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