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Z Aerosol

Convenient Aerosol Can of Calcia (4%)-Stabilized Zirconium Oxide (ZrO₂)

Z Aerosol is a fast-drying, solvent-based, easy to use aerosol spray can that allows easy application of Calcia (4%)-Stabilized Zirconium Oxide to most any substrate for use in any atmosphere. Thus, the aerosol can provides the great properties of ZrO₂ in an easy-to-use manner – moderately-low electrical conductivity; very-low thermal conductivity; good high-temperature stability with molten metals, glasses, slags, and salts; inert barrier for reactions.

Key Attributes

Anti-stick/Anti-reaction

- Reactive Metal Melting/Casting: crucible/mold coatings
- Reactive Glass Melting/Forming

High-temperature Barrier Coating

- Hot-pressing
- Diffusion Bonding
- Sintering

Very-low Thermal Conductivity Coating

Ideal Use

- Precious metal melting/casting
- Reactive metal separator layer

Use Notes

1. Clean surfaces to be painted of any oils dirt, scale, etc.
2. Shake can until mixing ball is heard & for 1 minute more.
3. Hold can 6 to 12 inches from surface & apply thin/uniform coating using even movements
4. Allow to dry for 1 to 2 minutes and respray as needed.

Safety Information

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



Specifications

Active Ingredient	ZrO ₂ *
Max Use Temperature	
Air/Inert/Vac, without C present	3450 F / 1900 C
Vac, with C present	2730 F / 1500 C
Use Atmosphere	All
Fired Composition(Air@700 C)	98% ZrO ₂ *
Liquid Carrier	Ethyl Alcohol/Acetone
Gas Propellant	Propane/Butane
Binder Phase	Magnesium Silicate
Color	Cream
Shelf Life (months)	>12
Coverage (ft ² /aerosol-can)	30-50
H F R Ratings	2-4-0
Substrate Use	All
Other:	Nearly water insoluble after drying
	* with 4 wt% CaO

Sizes and colors

Product is cream-colored:
 will gray out on first heat up to 700 C due to small amount of organic binder

Standard Size: 13 oz. (369 grams) can
 Can be purchased as bulk paint with the same formula: Z Aerosol-Brushable.

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