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YSZ Aerosol Brushable (Yttrium Oxide-stabilized Zirconia)

Solvent-based, Highly Refractory YSZ Paint

YSZ Aerosol Brushable is a 'bulk' solvent-based Yttria-stabilized Zirconia coating that utilizes 9 wt% / 8 mol% Yttrium Oxide-stabilized Zirconia. Yttria-stabilized Zirconia ensures a predominantly cubic structure with excellent high-temperature stability on all substrates. YSZ Aerosol Brushable provides excellent corrosion resistance and thermal stability in highly aggressive environments up to and beyond 1900 C.

Key Attributes

- Fast drying, nonaqueous paint
- Easy to use
- Excellent corrosion resistance due to yttria stabilization
- Excellent thermal stability: usable to over 1900 C
- Easily diluted with acetone and/or ethanol

Ideal Use

- Precious metal melting or casting
- Reactive metal separator layer
- High temperature thermal barrier coating material

Use Notes

1. Resuspend if needed.
2. Clean surfaces to be painted of any oils dirt, scale, etc.
3. Apply one thin layer by brush, dip or air-spray
4. Allow to dry at room temperature. before use. Generally less than 5 minutes. Recoat if 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	Ethanol/Acetone
Binder Phase	Magnesium Silicate
Brookfield Viscosity (cps)	450 @ 3/60
Specific Gravity	1.5
Color	Cream
Shelf Life (months)	>12
Coverage (ft ² /gal.)	100-400
H F R Ratings	2-3-0
Substrate Use	All
Other:	Nearly water insoluble after drying
	* with 9 wt% Y ₂ O ₃

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: 1 gallon or
1 quart Nalgene container

CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL.

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