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Y Aerosol

Convenient Aerosol Can of Yttrium Oxide (Y₂O₃)

Y Aerosol is a fast-drying, solvent-based, easy-to-use aerosol spray can that allows easy application of Yttrium Oxide to most any substrate for use in any atmosphere. The aerosol can provides the great properties of Y₂O₃ in an easy-to-use manner – low electrical conductivity; low thermal conductivity; superior high-temperature stability with molten metals, glasses, slags, and salts. Also usable as an inert barrier for reactions, diffusion bonding, brazing etc.

Key Attributes

Anti-stick/Anti-reaction

- Reactive Metal Melting/Casting: crucible or mold coatings
- Hot-Pressing
- Reactive Glass Melting/Forming
- Weld Spatter

High-temperature Barrier Coating

- Hot-pressing
- Diffusion Bonding
- Sintering

High-temperature Lubrication

Ideal Use

- Superplastic Forming Lubricant
- Braze Stop-Off (with Titanium and others)

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	Y ₂ O ₃
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% Y ₂ O ₃
Liquid Carrier	Ethyl Alcohol/Acetone
Gas Propellant	Propane/Butane
Binder Phase	Magnesium Silicate
Color	White
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

Sizes and colors

Product is white:
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 as Y-Aerosol-Brushable.

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