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 \( \text{Y}_2\text{O}_3 \) 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)

**Specifications**

- **Active Ingredient**: \( \text{Y}_2\text{O}_3 \)
- **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% \( \text{Y}_2\text{O}_3 \)
- **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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