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Traycoat A Aerosol

Convenient Aerosol-Can Tray Coating of Aluminum Oxide (Al_2O_3)

Traycoat paints are barrier-separation coatings for powder metallurgy and vacuum sintering processes. They are designed for graphite as well as refractory metal or ceramic sintering trays and boats used to over 1500 C in hard vacuum.

Traycoat A Aerosol is an easy-to-use aerosol can for spraying uniform, thin layers that are fast drying.

Key Attributes

- Maintains Consistent Carbon Contents of Sintered Parts
- Prevents Warping
- Extends Tray Lifetime
- Reaction-barrier Layer
- Easy-to-Use, Fast-Drying, Solvent Based

Ideal Use

- Graphite Trays/Boats for Cobalt-bonded WC, TiC, TaC Parts
- Carbon Barrier/Separator Layer
- Reactive Refractory Metal Sintering

Use Notes

1. Make sure that you need an Al_2O_3 solvent-based aerosol-can tray coating.
2. Clean surfaces to be painted of any loose graphite/carbon dust, oils, dirt, scale, etc.
3. Shake can until mixing ball is heard & for 1 minute more. Hold can 6 to 12 inches from surface.
4. Apply thin uniform coating using even movements.
5. Allow to dry for 1 to 2 minutes.
6. Place into use.

Safety Information

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

ALUMINUM OXIDE TRAYCOAT SELECTION

When processing HIGH COBALT PARTS (to 27% Co), Al_2O_3 provides an effective carbon barrier. The Al_2O_3 also can be used for any Cobalt level as well as for refractory metals and non-Cobalt-containing parts. The Al_2O_3 coatings often allow several thermal cycles without reapplying more coating.

After applying Al_2O_3 -based Traycoats, a bed of coarse-grained Al_2O_3 grit can be spread on top to further prevent sticking and lead to longer-term use of the Traycoat before reapplying.

For LOW COBALT PARTS (to 8% Co) or Rare-Earth-Magnets alloys, see our Titanium Nitride Traycoat paints.

Specifications

Active Ingredient	Al_2O_3
Max Use Temperature	Vac 2732 F / 1500 C
	Air/Inert 3272 F / 1800 C
Use Atmosphere	All
Fired Composition	98% Al_2O_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: Traycoat A Aerosol Brushable.

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