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Y-Stop S

Solvent-Based Yttrium Oxide Stop-Off Coating

Y-Stop S is a solvent-based Yttrium Oxide (Y_2O_3) coating providing good adherence to substrates. Y-Stop S is similar to water-based Yttria Stop-Off in preventing unwanted flow with molten braze alloys, but Y-Stop S is faster drying due to its solvent base. Y-Stop S is ideal as a brazing stop-off or as a parting agent for reactive metals such as Titanium and Zirconium and for high temperature superalloys.

Key Attributes

- Based on highly-stable, inert Yttrium Oxide (Y_2O_3)
- Good erosion resistance at high temperatures
- Low thermal and electrical conductivity
- Use temperatures >1600 C in all atmospheres, possibly to near 2000 C.
- Solvent-based, fast-drying, easy to use and cleanup with ethanol

Ideal Use

- Brazing stop-off with reactive metals where temperatures exceed 1000 C in air
- Interaction barrier layer and release layer for stacked metal sheets

Use Notes

1. Re-suspend until uniform consistency.
2. Clean surfaces to be painted of any oils dirt, scale, etc.
3. Apply a single layer by brush or spray. Dry at room temperature – generally < 5 minutes. If desired, apply additional layers - drying after each layer.

Safety Information

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



Specifications

Active Ingredient	Yttrium Oxide (Y_2O_3)
Max Use Temperature	Above 1600 C (>2912 F), possibly to 2000 C (3632 F)
Use Atmosphere	All
Fired Composition	>94 wt% Y_2O_3
Liquid Carrier	Ethanol/Acetone
Brookfield Viscosity (cps)	550 @3/60
Specific Gravity	1.45
Color	White
Shelf Life (months)	>12
Coverage (ft ² /gal)	100 to 400
Coating pH	9-10
H F R Ratings	1-3-0
Substrate Use	All
Other	This coating has mineralizer elements that may be unwanted in some specialty applications.

Sizes and colors

Y-Stop S is a white colored paint.

Standard Sizes: 1-gallon, 1-quart, or 1-pint wide-mouth Nalgene containers.

CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL.

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