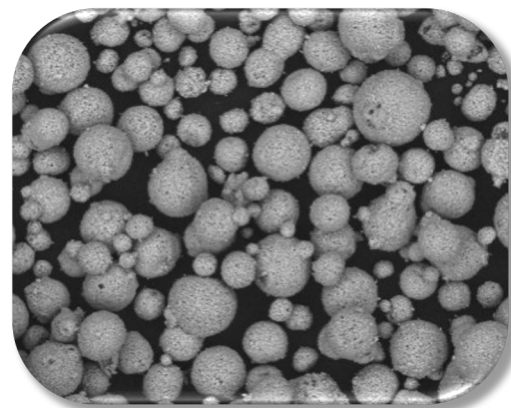


Thermal Spray Powders Technical Datasheet



Saint-Gobain High Purity Yttrium Oxide

POWDER CHARACTERISTICS

Product	Nominal Size	Color	Morphology
#402	20-53 micron	White	Spherical agglomerate
#1120	20-53 micron	White	Spherical agglomerate

TYPICAL CHEMISTRY (wt%)

Product	Y ₂ O ₃	ZrO ₂	TiO ₂	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	Na ₂ O
#402	99.8%	0.02%	0.01%	0.01%	0.02%	0.02%	0.02%
#1120	99.9%	<0.01%	<0.01%	<0.01%	<0.01%	<0.01%	<0.01%

PROPERTIES AND APPLICATIONS

Saint-Gobain Yttrium Oxide is a high purity powder developed with strict particle size control. Yttria coatings improve erosion and corrosion resistance where parts are exposed to extreme environments. Yttria coatings may also be used for their dielectric properties. Typical applications include coating chamber surfaces used in the etching process for semiconductor manufacturing.

For more information about powders used in semiconductor applications, please see Saint-Gobain High Purity Spherical Alumina or inquire about additional formulations.

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