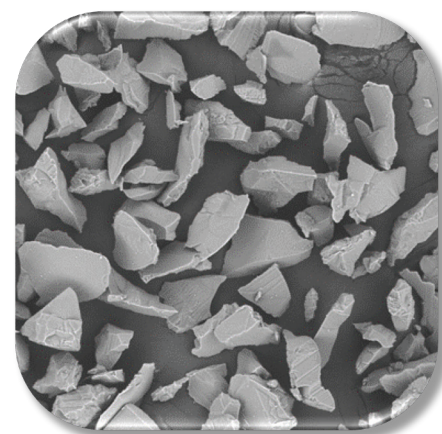


# Thermal Spray Powders Technical Datasheet



## Saint-Gobain White Aluminum Oxide

### POWDER CHARACTERISTICS

Product	Nominal Size	Color	Morphology
#182	20-70 micron	White	Irregular
#183	15-45 micron	White	Irregular
#184	5-30 micron	White	Irregular
#150	5-20 micron	White	Irregular

### TYPICAL CHEMISTRY

Product	Al <sub>2</sub> O <sub>3</sub>	NaO <sub>2</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	Other
#182, #183, #184	99.5%	0.30%	0.02%	0.06%	0.01%	0.10%
#150	99.8%	0.02%	0.06%	0.03%	0.02%	0.07%

### PROPERTIES AND APPLICATIONS

Saint-Gobain White Aluminum Oxide is a high purity, fused and crushed powder offered in several sizes. These materials are insoluble in aqueous solutions of common acids and alkalis. They produce coatings with excellent resistance to abrasive wear, particle erosion, friction, and oxidation. These materials also have high dielectric strength at room temperature.

These coatings are used in textile, chemical, and aerospace applications. More specifically, coating armature shafts, textile parts, process rolls, and seal faces. Dense or low porosity coatings can be produced more easily with #184 and #150. The finer particle size and low soda (Na<sub>2</sub>O) content of #150 leads to improved dielectric properties.

Status	Customer Specifications
Approved	#184 for PWA 1310
Meets spec	#184 for EMS 52431, EMS 56758, RR 9507/9 Please inquire about others.

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