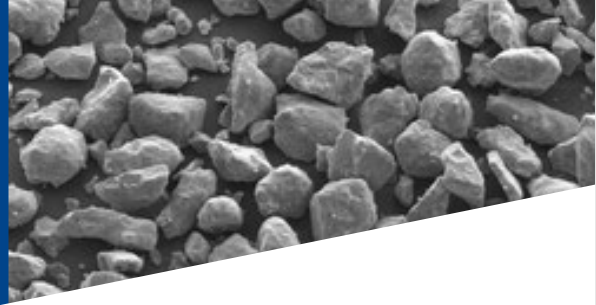


Thermal Spray Powders Technical Datasheet



Saint-Gobain Chromium Oxide with Silica-Titania

POWDERS CHARACTERISTICS

Product	Nominal Size	Color	Morphology
#340	25-95 micron	Black	Irregular
#341	20-75 micron	Black	Irregular

TYPICAL CHEMISTRY

Cr ₂ O ₃	SiO ₂	TiO ₂	Fe ₂ O ₃	Na ₂ O	Al ₂ O ₃	Organics	Free Cr
90.5%	4%	3%	0.25%	0.15%	0.08%	2%	0.02%

KEY PROPERTIES

Saint-Gobain Chromium Oxide with Silica and Titania offers several advantages compared to pure chromium oxide and to Chromium Oxide with Titania. The incorporation of titania and silica leads to increases in deposit efficiency while improving the finishing characteristics as compared to pure chromium oxide. The additives also increase wear resistance by helping to anchor the chromium oxide particles in the coating and reducing grain pull out in service. This composition is also more impact resistant than the other chromium oxide-based compositions.

The #340 grade is a good choice either for building thicker coatings (up to 0.1 inches/2.5mm) or for use with a high power plasma spray gun, while the #341 grade will be preferred with legacy plasma spray guns and for a smoother surface finish.

TYPICAL APPLICATIONS

Same applications as Chromium Oxide with Titania, but designed for applications where even better toughness and further improved mechanical shock resistance is required