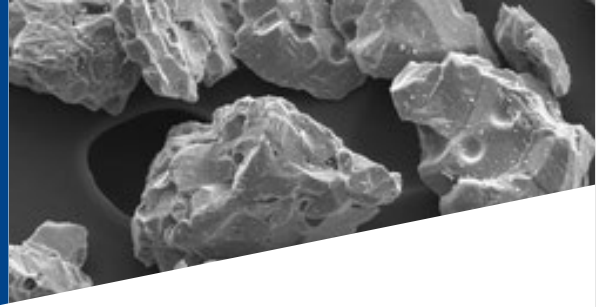


Thermal Spray Powders Technical Datasheet



Saint-Gobain Chromium Oxide with Titania

POWDERS CHARACTERISTICS

Product	Nominal Size	Color	Morphology
#306	25-95 micron	Black	Irregular
#307	15-63 micron	Black	Irregular

TYPICAL CHEMISTRY

Cr ₂ O ₃	TiO ₂	SiO ₂	Fe ₂ O ₃	ZrO ₂	Al ₂ O ₃	Free Cr
96%	3.5%	0.13%	0.15%	0.10%	0.08%	0.03%

KEY PROPERTIES

Saint-Gobain Chromium Oxide with Titania is a sintered and crushed powder with an irregular shape. The titania addition gives the powder an advantage in deposit efficiency and finishing characteristics when compared to pure chromium oxide. The titania also increases wear resistance by solidifying between the grains and reducing grain pull out in the coating. Essentially free of chromium metal, these powders are very corrosion resistant.

Choosing a coarser particle size allows for building thicker coatings while finer particle size are ideal for applications where a high density coating with a smooth surface finish is required.

TYPICAL APPLICATIONS

Same applications as Pure Chromium Oxide, but designed for applications where better toughness and improved mechanical shock resistance/compliance is required