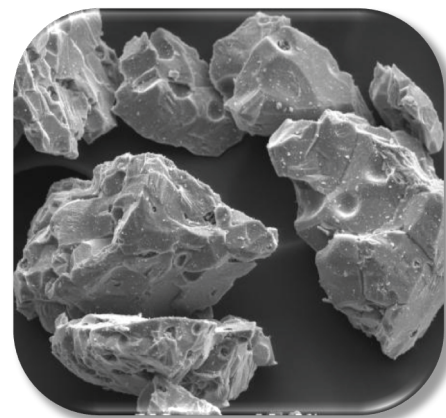


Thermal Spray Powders Technical Datasheet



Saint-Gobain Chromium Oxide with Titania

POWDER 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%

PROPERTIES AND APPLICATIONS

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.

This material is often used for wear and corrosion resistant applications on pumps, shafts, seals, pistons and rolls. Choosing a coarser particle size allows for building thicker coatings while finer particle sizes are ideal for repair work where fine finishes are required.