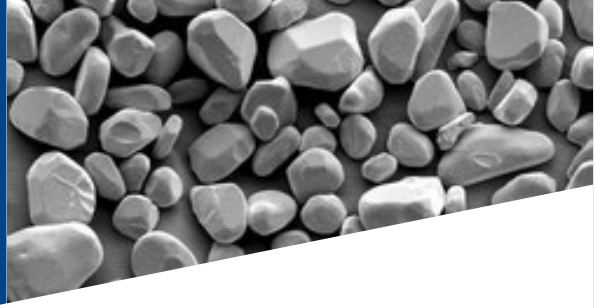
Thermal Spray Powders Technical Datasheet



Saint-Gobain Chromium Oxide

POWDERS CHARACTERISTICS

Product	Nominal Size	Color	Morphology
#2023	15-63 micron	Black	Irregular/rounded
#2020, #2026, #2525	15-45 micron	Black	Irregular/rounded
#2021	10-30 micron	Black	Irregular/rounded
#2022	5-15 micron	Black	Irregular/rounded

TYPICAL CHEMISTRY

Cr_2O_3	Al_2O_3	Fe_2O_3	TiO_2	SiO_2	Cr
99.6%	0.04%	0.20%	0.03%	0.06%	0.02%

KEY PROPERTIES

Chromium Oxide is the choice material for severe sliding and abrasion wear resistance applications. Its high hardness and chemical resistance associated with the low friction coefficient represents a unique set of properties that are difficult to find in other materials. The vaporization point (close to the melting point) enables easy laser engraving in Anilox Roll applications.

Saint-Gobain #2000 series are fused Chromium Oxide powders that are rounded for superior flow characteristics. The rounded shape combined with tightly controlled particle size delivers a uniform stream of powder to the heat source. The resulting coatings have reliable build up rates with high deposit efficiencies and low porosity. Strict control of particle size and chemistry also lead to coatings with high density and hardness. Choosing a coarser particle size allows for building thicker coatings while finer particle sizes are ideal for finer finishes.

TYPICAL APPLICATIONS

Paper Rolls, Anilox Rolls, Pumps, Shafts, Sealing Surfaces, Pistons, Components for Textile Machinery (e.g. Thread Guides, Guide Bars, Pulleys, etc), Materials Handling Devices (Screw Feeders, etc), Chemical Industry Components

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