

Thermal Spray Wires Technical Bulletin

SG 680 Ni 20Cr 7Al

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Applicable for:  Arc Spray  Flame Spray

PRODUCT INFORMATION

Saint-Gobain's Nickel-Chrome-Aluminum wire is designed to produce a self-bonding alloy deposit with excellent high-temperature oxidation and corrosion resistance. The coatings can be used as an undercoat for ceramics and is widely used in the aircraft repair market.

NOMINAL CHEMICAL COMPOSITION (%)

Ni	Bal
Cr	20.0
Al	7.0

WIRE PROPERTIES

∅ Wire	1/16 inch (1.6mm)
Morphology	Cored

COATING FEATURES (nominal data)

Hardness	HRB 85-95
Bond Strength	9500 PSI
Coverage	0.8 oz/ ft ² / mil
Deposition Efficiency	70%

PACKAGING

Spool	Paperboard
Weight	25 lbs ± 1 lb.

APPLICATIONS

- Dimensional Restoration
- Ceramic Undercoating
- Oxidizing Resistance
- Hot Gas Corrosion Resistance
- Bond Coat

SURFACE PREPERATION

Surface should be clean, white metal, with no oxidation, oil, grease or dirt on the surface. Recommended method of preparation is to grit blast with 24 mesh aluminum oxide, rough grind, or rough machine in a lathe. Note: It is best not to handle the surface after cleaning.

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