

# Thermal Spray Wires Technical Bulletin

## SG 660 Ni 20Al

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Applicable for:  Flame Spray

### PRODUCT INFORMATION

Saint-Gobain's Ni 20Al is an all purposes bond coat solution designed for either arc or flame spraying. This cored wire has excellent bond strength and is suitable for all base materials including; steel, stainless steels, cast iron, aluminium and super alloys.

Coatings are dense and resistant to oxidation and abrasion.

### NOMINAL CHEMICAL COMPOSITION (%)

Ni	Bal
Al	20

### WIRE PROPERTIES

∅ Wire	1/8 inch (3.2 mm)
Morphology	Cored

### COATING FEATURES

Density	~ 6.9 g/cm <sup>3</sup>
Hardness	HRB 75
Roughness Ra (as sprayed)	6 - 8 µm
Bond Strength	~ 9100 PSI
Coverage	0.9 oz/ ft <sup>2</sup> / mil
Deposition Efficiency	70%
Max service temperature	1470° F

### APPLICATIONS

- Bond Coat
- Dimensional Restoration

### 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.

### PACKAGING

Spool	Paperboard
Weight	12.5 lbs ± 1 lb.

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