

Thermal Spray Wires Technical Bulletin

SG 650 Ni 5Al

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Applicable for:  Arc Spray  Flame Spray

PRODUCT INFORMATION

Ni-Al 95-5 wire is self-bonding to most materials and requires minimal surface preparation. It is also suitable for the build-up and dimensional restoration of nickel-based alloys.

NOMINAL CHEMICAL COMPOSITION (%)

Ni	Bal
Al	5

WIRE PROPERTIES

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

COATING FEATURES (nominal data)

Hardness	HRB 75
Bond Strength	9000 PSI
Coverage	0.9 oz/ ft ² / mil
Deposition Efficiency	70%

PACKAGING

Spool	Paperboard
Weight	25 lbs ± 1 lb.

APPLICATIONS

- Bond Coats
- Dimensional Restoration
- Fretting Resistance
- Particle Erosion Resistance

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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See the correct Safety Data Sheet (SDS) for this material according to the country where wire will be used. Contact our team for more information.