

# Thermal Spray Wires Technical Bulletin

## SG 505

## Fe 5Al

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Applicable for:  Arc Spray  Flame Spray

### PRODUCT INFORMATION

Iron Copper Aluminum cored wire is designed to produce coatings that exhibit moderate surface hardness and are well-bonded to the substrate. This wire can be applied with relatively high deposition efficiencies.

### NOMINAL CHEMICAL COMPOSITION (%)

Fe	Bal
Al	5.0
C	2.0
Mn	0.8

### WIRE PROPERTIES

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

### COATING FEATURES (nominal data)

Hardness	HRB 35
Bond Strength	8000 PSI
Coverage	0.6 oz/ ft <sup>2</sup> / mil
Deposition Efficiency	70%

### PACKAGING

Spool	Paperboard
Weight	25 lbs ± 1 lb.

### APPLICATIONS

- Bond Coats
- Anti-skid
- Traction Rolls
- Part 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.

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