

# Thermal Spray Wires Technical Bulletin

## SG 625 Inconel 625

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Applicable for:  Arc Spray  Flame Spray

### PRODUCT INFORMATION

Inconel 625 pre-alloyed wire is appropriate for oxidation and hot gas corrosion at elevated temperatures. This wire can also be used for salvage and restoration materials for nickel-based super alloy components.

### NOMINAL CHEMICAL COMPOSITION (%)

Ni	Bal
Cr	21.0
Mo	9.0
Nb+Ta	4.0

### WIRE PROPERTIES

∅ Wire	1/16 inch (1.6mm)
Morphology	Solid
Melting Point	2350 - 2460° F
Density	8.44 g/cm <sup>3</sup>

### COATING FEATURES (nominal data)

Hardness	HRB 92
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### PACKAGING

Spool	Paperboard
Weight	25 lbs ± 1 lb.

### APPLICATIONS

- Boilers
- Digesters
- Oxidation and Heat Resistance
- Corrosion 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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