

Thermal Spray Wires Technical Bulletin

SG 685 Ni 50Cr

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Applicable for:  Arc Spray  Flame Spray

PRODUCT INFORMATION

Nickel-Chrome wire is appropriate for corrosion resistance in oxidizing and reducing environments, such as for use in boilers. The coatings produced have a high degree of structural integrity and can tolerate elevated temperatures.

NOMINAL CHEMICAL COMPOSITION (%)

Ni	50.0
Cr	50.0

WIRE PROPERTIES

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

COATING FEATURES (nominal data)

Hardness	HRB 35
Bond Strength	7000 PSI
Deposition Efficiency	85%

PACKAGING

Spool	Paperboard
Weight	25 lbs ± 1 lb.

APPLICATIONS

- Boilers Repair
- Corrosion Resistance
- Oxidizing 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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