

# Thermal Spray Wires Technical Bulletin

# SG 513 Fe 13 Cr

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Applicable for:  Arc Spray  Flame Spray

## PRODUCT INFORMATION

Iron Chrome 13 cored wire contains tungsten carbide in an iron-based amorphous alloy matrix. The carbide component enhances abrasive wear resistance while the amorphous alloy matrix enhances corrosion resistance.

## NOMINAL CHEMICAL COMPOSITION (%)

Fe	Bal
WC	26
Cr	13
TiC	5
Ni	5
B	2
Mn	1
Si	1

## WIRE PROPERTIES

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

## COATING FEATURES (nominal data)

Hardness	HRC 65
Bond Strength	5000 PSI
Coverage	1.0 oz/ ft <sup>2</sup> / mil
Deposition Efficiency	70%

## APPLICATIONS

- Fan Blades
- Boiler Tubes
- Other High Wear Applications

## 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	25 lbs ± 1 lb.

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