

Thermal Spray Wires Technical Bulletin

SG 683

Ni 43 Cr

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Applicable for:  Arc Spray  Flame Spray

PRODUCT INFORMATION

Nickel 43 Chrome wire produces a dense, well-bonded coating with excellent corrosion resistance and good wear resistance. It is highly resistant to sulfur and vanadium atmospheres up to 1825° F. It has proven to be particularly effective as a protective coating for boiler tubes in black liquor recovery boilers and coal-fired utility boilers

NOMINAL CHEMICAL COMPOSITION (%)

| | |
|----|------|
| Ni | Bal |
| Cr | 43.0 |
| Ti | 0.6 |

WIRE PROPERTIES

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

COATING FEATURES (nominal data)

| | |
|-----------------------|-----------|
| Hardness | HRB 30-35 |
| Bond Strength | 8000 PSI |
| Deposition Efficiency | 85% |

PACKAGING

| | |
|--------|----------------|
| Spool | Paperboard |
| Weight | 25 lbs ± 1 lb. |

APPLICATIONS

- Boilers Repair
- Corrosion Resistance
- Wear 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.