

THERMAL SPRAY METHODS FOR
METALLIC AND CERAMIC MATERIALS**Technical Data Sheet**
Nickel-based Alloy

HS 3D

Chemical Composition

Element	Nominal Analysis
Chromium	20,00 %
Silicon	1,00 %
Nickel	Balance

Coating Hardness: **35 – 43 HRC****Description:**

- A nickel-base alloy suitable for arc spraying, offering very good bond strength and excellent protective properties against corrosion processes encountered in boiler systems under oxidizing atmospheres.
- The hardness of the sprayed coating also provides good wear resistance at elevated temperatures.
- The ductility of this alloy allows it to accommodate the thermal expansion of boiler construction materials up to approximately 600 °C surface temperature without developing stress cracks.

Suggested Applications:

- Evaporator heating surfaces in waste-to-energy plants.
- Highly corrosion-stressed components in boiler installations

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