

THERMAL SPRAY METHODS FOR METALLIC AND CERAMIC MATERIALS

Technical Data Sheet Nickel-based Alloy

HS 4

Chemical Composition

Element	Nominal Analysis
Chromium	14,00%
Tungsten	15,00%
Silicon	3,70%
Nickel	Balance

Coating Hardness: **56 – 61 HRC**

Description:

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

Suggested Applications:

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

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