

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

HS11 D

Chemical Composition

Element	Nominal Analysis
Chromium	18,0%
Silicon	4,0%
Boron	4,0%
Molybdenum	6,0%
Niobium	3,0%
Nickel	Balance

Coating Hardness: **800 – 900 HV0,3****Description:**

- A nickel-based alloy suitable for arc spraying, offering excellent wear-protective properties and outstanding resistance to chlorine-induced corrosion processes.
- The hardness of the sprayed coating also provides good abrasion resistance at temperatures up to approximately 600 °C.
- Thanks to the ductility of the nickel matrix, the alloy can be applied onto substrates with high coefficients of thermal expansion without risk of stress-induced cracking.

Suggested Applications:

- Tube surfaces in power plants and waste-to-energy plants.
- Components in the chemical and petrochemical industries subjected to combined corrosion and erosion stresses.

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