HÄUSER & CO GmbH

THERMAL SPRAY METHODS FOR
METALLIC AND CERAMIC MATERIALS

Technical Data Sheet
Nickel-based Alloy

Inconel™ 625

Chemical Composition

Element	Nominal Analysis
Chromium	21.00 %
Molybdenum	9.20 %
Niobium	3.30 %
Nickel	Balance

Coating Hardness (Laser-Sprayed): **240 – 270 HV**

Description:

- A nickel-base alloy suitable for laser spraying, offering very good corrosion resistance against (chloride-) induced corrosion processes encountered, for example, in boiler systems.
- IN 625 coatings applied by laser spraying exhibit excellent oxidation resistance as well as high resistance to pitting and crevice corrosion.

Suggested Applications:

- All flue-gas-exposed evaporator heating surfaces subject to chloride-induced corrosion, owing to its material-specific high-temperature strength up to approximately 420 °C.
- Offshore and seawater installations, thanks to its excellent saltwater resistance.

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