

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

# HS 100D

**Chemical Composition**

Element	Nominal Analysis
Chromium	30.00 %
Carbon	0.04 %
Iron	Balance

Coating Hardness: **870 – 950 HV<sub>0.2</sub>****Description:**

- An iron-chromium alloy suitable for arc spraying, providing excellent wear-protection properties against mechanical sliding wear, even at high operating temperatures up to approximately 900 °C.
- Thanks to its high chromium content, this material not only offers superior wear resistance but also satisfactory corrosion resistance, comparable to that of stainless steel grades.

**Suggested Applications:**

- Coatings for dust-handling components and equipment in power plants and waste-to-energy facilities.
- Mechanically highly stressed parts such as shaft walls, feed screws and troughs, chutes, and slides.

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