

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

HS 6

Chemical Composition

Element	Nominal Analysis
Chromium	18.00 %
Molybdenum	28.00 %
Silicon	3.40 %
Cobalt	Balance

Coating Hardness: **56 – 61 HRC****Description:**

- A cobalt-base alloy suitable for plasma spraying, offering excellent wear-protective properties and exceptionally high hot hardness — up to approximately 900 °C under normal operating conditions — compared with other cobalt-base alloys.
- The material also exhibits high resistance to chloride-induced corrosion, superior to that of other (e.g., Stellite) alloys.

Suggested Applications:

- Coatings on highly abrasive components such as extruders and feed screws, dust-handling ducts, chutes, wear-protection liners, etc.
- Protection of evaporator and superheater tubes in fluidized-bed coolers and ash chambers of coal-fired power plants.

Stand: 04.2025