

Cobalt

Special properties - It is a hard ferromagnetic, silver-white, lustrous, brittle element. It is stable in air and does not react with water. Like other metals, it can also be magnetized. With dilute acids, it reacts slowly.

Application - Aircraft engines, gas turbines, high-speed steels, corrosion-resistant alloys, catalyst for the petroleum and chemical industries. It is used by craft workers in porcelain, stained-glass pottery, enamel jewellery, and tiles.

Chemical Composition in %

Co	Fe	C	Mn	Ni	S	Cu
≥99.3	≤0.4	≤0.03	≤0.07	≤0.3	≤0.004	≤0.03

Mechanical Properties 20 °C

Compression-Modul, GPa	180
Shear-Modul, GPa	75
E-Modul, GPa	209

Physical Properties 20 °C

Density, g/cm ³	8.9
Electrical conductivity, MS/m	16.7
Thermal conductivity, W/m K	100
Melting point, °C	1495
Boiling point, °C	2927

Our products

Sheets	Thickness: 0.3 - 10mm; max. width: 600mm
Round bars	Ø5 - 300mm; max. length: 3000mm
Wires	Ø 0.05 - 6.0mm