

CobaltChrome UNS R31538 Material Data Sheet

Powder Description

CobaltChrome UNS R31538 powder is a cobalt-chrome-molybdenum-based superalloy powder. Parts made from CobaltChrome UNS R31538 can be machined, spark-eroded, welded, micro shotpeened, polished and coated if required. Parts made from CobaltChrome UNS R31538 are suitable for:

- High mechanical properties at both ambient and elevated temperatures (500 - 1000 °C)
- Good corrosion resistance

Safety Recommendation

Please refer to the Safety Data Sheet (SDS) provided.

Chemical Composition

Elements [1]	Co	Cr	Mo	Si	Mn	Fe	C	Ni
Min [wt.%]	Bal.	26	5	0	0	0	0	0
Max [wt.%]	Bal.	30	7	1	1	0.75	0.16	0.1

Powder Properties

Particle Size Distribution [μm] [2]	Flowability [s/50g] [3]	Apparent Density [g/cm^3] [4]
15 - 45	20	3.71

Additional Comments

- [1] The data is valid for the powder material
 [2] Particle size distribution is measured according to ISO 13322-2
 [3] Flowability is measured according to ASTM B213-17 Method 1
 [4] Apparent Density is measured according to ASTM B212-17