

Cobalt Chrome (SP2) - Specifications

Description

This material is a cobalt-chrome-molybdenum-based super alloy with excellent tensile strength and hardness. It is commonly used for prototyping.

Composition*

Element	Typical Values (wt-%)
Co	61.8 – 65.8
Cr	23.7 – 25.7
Mo	4.6 – 5.6
Si	0.8 – 1.2
Mn	≤ 0.10
Fe	≤ 0.50
W	4.9 – 5.9

Mechanical Properties*

Ultimate tensile strength	116 ksi
Young's modulus	170 GPa
Elongation at break	10 %
Hardness	320 HV

* The properties may vary according to application and operation conditions. This information is for reference only. Specifications are subject to change without notice.

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