

Material: UNS R30006

Standard Specification for Cobalt-Based alloy

Group: Non-Ferrous Cobalt Alloys

Sub Group: UNS R30006 Cobalt-Based alloy

Application: Intended for Valve, Pump, General Engineering, Automotive, Medical and other Industries

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.900 - 1.400	As-Cast or Annealing	
Chromium	Cr %	26.000 - 32.000		
Tungsten	W %	3.500 - 5.500		
Silicon	Si %	1.500 max.		
Iron	Fe %	6.000 max.		
Manganese	Mn %	1.000 max.		
Molybdenum	Mo %	1.500 max.		
Nickel	Ni %	5.000 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Cobalt	Co %	Balance	Mechanical Properties Tensile Strength in Mpa 793 min. Yield Strength in Mpa 662 min. Elongation in % 3 min. Reduction of Area in % 3 min. Hardness in HRC 41 min. Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Stellite 6	SAE	USA	Casting
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