

Material: UNS R30001

Standard Specification for Cobalt Alloy Castings, Wear and Corrosion Resistant

Group: Non-Ferrous Cobalt Alloys

Sub Group: UNS R30001 Cobalt Alloy Castings, Wear and Corrosion Resistant

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	2.500 max.	As-Cast or Annealing	
Chromium	Cr %	30.000 max.		
Iron	Fe %	3.000 max.		
Manganese	Mn %	0.500 max.		
Molybdenum	Mo %	0.500 max.		
Nickel	Ni %	1.500 max.		
Silicon	Si %	1.300 max.		
Tungsten	W %	13.000 max.		
Cobalt	Co %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	-
-	-	-	Yield Strength in Mpa	-
-	-	-	Elongation in %	-
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRC	50 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Stellite 1	SAE	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-
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-	-	-	-
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