

Material: UNS R30012

Standard Specification for Cobalt-Based alloy

Group: Non-Ferrous Cobalt Alloys

Sub Group: UNS R30012 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 %	1.700 - 1.900	As-Cast or Annealing	
Chromium	Cr %	26.000 - 33.000		
Tungsten	W %	7.000 - 9.500		
Iron	Fe %	3.000 max.		
Manganese	Mn %	1.000 max.		
Molybdenum	Mo %	1.000 max.		
Nickel	Ni %	3.000 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Silicon	Si %	0.400 - 2.000	Mechanical Properties	
Boron	B %	1.000 max.	Tensile Strength in Mpa	-
Cobalt	Co %	Balance	Yield Strength in Mpa	-
-	-	-	Elongation in %	-
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRC	42 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Stellite 12	SAE	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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