

Material: SAE Stellite 12

Standard Specification for Cobalt-Based alloy

Group: Non-Ferrous Cobalt Alloys

Sub Group: SAE Stellite 12 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 %	1.100 - 1.700	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		
Cobalt	Co %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	-
-	-	-	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
R30012	UNS	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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