

Material: UNS R30103

Standard Specification for Cobalt-Based alloy

Group: Non-Ferrous Cobalt Alloys

Sub Group: UNS R30103 Cobalt-Based alloy

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	2.000 - 2.800
Iron	Fe %	5.000 max.
Manganese	Mn %	2.000 max.
Nickel	Ni %	3.500 max.
Silicon	Si %	2.000 max.
Chromium	Cr %	28.000 - 33.000
Boron	B %	0.100 - 1.000
Tungsten	W %	11.000 - 14.000
Cobalt	Co %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As-Cast or Annealing	

Mechanical Properties	
Tensile Strength in Mpa	490 - 551.6
Yield Strength in Mpa	-
Elongation in %	1 max.
Reduction of Area in %	-
Hardness in HRC	48 - 63
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Stellite 3	Gravity	India	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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