

Material: UNS R30605

Standard Specification for Cobalt-Based alloy

Group: Non-Ferrous Cobalt Alloys

Sub Group: UNS R30605 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 %	0.050 - 0.150
Manganese	Mn %	2.000 max.
Silicon	Si %	1.000 max.
Chromium	Cr %	19.000 - 21.000
Nickel	Ni %	9.000 - 11.000
Tungsten	W %	14.000 - 16.000
Iron	Fe %	3.000 max.
Cobalt	Co %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing

Mechanical Properties	
Tensile Strength in Mpa	860 min.
Yield Strength in Mpa	310 min.
Elongation in %	15 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
F 90 R30605	ASTM	USA	Casting
L-605	SAE	USA	Sheet, Strip, Foil and Plate
F2527 R30605	ASTM	USA	Sheet, Strip, Foil and Plate
5832-4	ISO	International	Casting
5832-5	ISO	International	Casting
7402-3	JIS	Japan	Casting
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