

Material: ASTM F 90 R30605

Standard Specification for Cobalt-20 Chromium-15 Tungsten-10 Cobalt Alloy for Surgical Implant Applications

Group: Non-Ferrous Cobalt Alloys

Sub Group: ASTM F 90 R30605 Cobalt-20 Chromium-15 Tungsten-10 Cobalt Alloy for Surgical Implant Applications

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.050 - 0.150	As-Cast or Annealing	
Manganese	Mn %	1.000 - 2.000		
Silicon	Si %	0.400 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 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	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
R30605	UNS	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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