

Material: ASTM F 75 R30075

Standard Specification for Cobalt-28 Chromium-6 Molybdenum Casting Alloy and Cast Products for Surgical Implants

Group: Non-Ferrous Cobalt Alloys

Sub Group: ASTM F 75 R30075 Cobalt-28 Chromium-6 Molybdenum Casting Alloy and Cast Products for Surgical Implants

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.350 max.	As-Cast or Annealing	
Chromium	Cr %	27.000 - 30.000		
Molybdenum	Mo %	5.000 - 7.000		
Nickel	Ni %	0.500 max.		
Iron	Fe %	0.750 max.		
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Tungsten	W %	0.200 max.		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.010 max.	Mechanical Properties	
Nitrogen	N %	0.250 max.	Tensile Strength in Mpa	655 min.
Aluminium	Al %	0.100 max.	Yield Strength in Mpa	450 min.
Boron	B %	0.010 max.	Elongation in %	8 min.
Titanium	Ti %	0.100 max.	Reduction of Area in %	-
Cobalt	Co %	Balance	Hardness in HRC	25 - 35
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
R30075	UNS	USA	Casting
7402-1	JIS	Japan	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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