

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		
Carbon	C %	0.350 max.
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.
Nitrogen	N %	0.250 max.
Aluminium	Al %	0.100 max.
Boron	B %	0.010 max.
Titanium	Ti %	0.100 max.
Cobalt	Co %	Balance

Heat Treatment	
As-Cast or Annealing	

Mechanical Properties	
Tensile Strength in Mpa	655 min.
Yield Strength in Mpa	450 min.
Elongation in %	8 min.
Reduction of Area in %	-
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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