

Material: ASTM F961 R30035

Standard Specification for 35Cobalt-35Nickel-20Chromium-10Molybdenum Alloy Forgings for Surgical Implants

Group: Non-Ferrous Cobalt Alloys

Sub Group: ASTM F961 R30035 35Cobalt-35Nickel-20Chromium-10Molybdenum Alloy Forgings for Surgical Implants

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

Grade Belongs to the Industry: Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.025 max.	As-Cast or Annealing	
Silicon	Si %	0.150 max.		
Manganese	Mn %	0.150 max.		
Chromium	Cr %	19.000 - 21.000		
Phosphorus	P %	0.015 max.		
Sulphur	S %	0.010 max.		
Molybdenum	Mo %	9.000 - 10.500		
Iron	Fe %	1.000 max.		
Titanium	Ti %	1.000 max.		
Nickel	Ni %	33.000 - 37.000		
Cobalt	Co %	Balance	Mechanical Properties Tensile Strength in Mpa 793 - 2482 Yield Strength in Mpa 241 - 586 Elongation in % 1.80 min. Reduction of Area in % 35 min. Hardness in BHN - Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
MP35N	Gravity	India	Plate and Sheet
IS 5347-7	IS	India	Casting
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