

# Material: UNS R30035

## Standard Specification for Cobalt-Based alloy

**Group:** Non-Ferrous Cobalt Alloys

**Sub Group:** UNS R30035 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 %	0.025 max.
Chromium	Cr %	19.000 - 21.000
Molybdenum	Mo %	9.000 - 10.500
Nickel	Ni %	33.000 - 37.000
Iron	Fe %	1.000 max.
Silicon	Si %	0.150 max.
Manganese	Mn %	0.150 max.
Phosphorus	P %	0.015 max.
Sulphur	S %	0.010 max.
Titanium	Ti %	1.000 max.
Cobalt	Co %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing

Mechanical Properties	
Tensile Strength in Mpa	793 - 2482
Yield Strength in Mpa	241 - 586
Elongation in %	1.800 min.
Reduction of Area in %	35 min.
Hardness in HRC	43 min.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
F562 R30035	ASTM	USA	Casting
F 2527 R30035	ASTM	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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