

# Material: UNS R30012

## Standard Specification for Cobalt-Based alloy

**Group:** Non-Ferrous Cobalt Alloys

**Sub Group:** UNS R30012 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 %	1.700 - 1.900
Chromium	Cr %	26.000 - 33.000
Tungsten	W %	7.000 - 9.500
Iron	Fe %	3.000 max.
Manganese	Mn %	1.000 max.
Molybdenum	Mo %	1.000 max.
Nickel	Ni %	3.000 max.
Phosphorus	P %	0.030 max.
Sulphur	S %	0.030 max.
Silicon	Si %	0.400 - 2.000
Boron	B %	1.000 max.
Cobalt	Co %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing

Mechanical Properties	
Tensile Strength in Mpa	-
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in HRC	42 min.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Stellite 12	SAE	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)



+91-99090 45075



[info@icastllp.com](mailto:info@icastllp.com)



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India