



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			Heat Treatment	
Carbon	C %	1.700 - 1.900	As-Cast or Annealing	
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.	Mechanical Properties Tensile Strength in Mpa - Yield Strength in Mpa - Elongation in % - Reduction of Area in % - Hardness in HRC 42 min. Impact in Joule -	
Cobalt	Co %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

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

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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