

Material: SAE Stellite 6

Standard Specification for Cobalt-Based alloy

Group: Non-Ferrous Cobalt Alloys

Sub Group: SAE Stellite 6 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 %	0.900 - 1.400	As-Cast or Annealing	
Chromium	Cr %	26.000 - 32.000		
Tungsten	W %	3.500 - 5.500		
Silicon	Si %	1.500 max.		
Iron	Fe %	6.000 max.		
Manganese	Mn %	1.000 max.		
Molybdenum	Mo %	1.500 max.		
Nickel	Ni %	5.000 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Cobalt	Co %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	793 min.
-	-	-	Yield Strength in Mpa	662 min.
-	-	-	Elongation in %	3 min.
-	-	-	Reduction of Area in %	3 min.
-	-	-	Hardness in HRC	41 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
R30006	UNS	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: info@icastllp.com