

Material: SAE R30002

Standard Specification for Cobalt-Based alloy

Group: Non-Ferrous Cobalt Alloys

Sub Group: SAE R30002 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 %	1.500 - 2.000
Chromium	Cr %	23.000 - 27.000
Nickel	Ni %	20.500 - 23.500
Tungsten	W %	10.500 - 13.500
Iron	Fe %	6.000 max.
Manganese	Mn %	1.000 max.
Molybdenum	Mo %	1.000 max.
Phosphorus	P %	0.030 max.
Sulphur	S %	0.030 max.
Silicon	Si %	0.800 - 1.500
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 BHN
Impact in Joule

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

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



+91-99090 45075



info@icastllp.com



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