

# Material: UNS R30031

## Standard Specification for Cobalt-Based alloy

**Group:** Non-Ferrous Cobalt Alloys

**Sub Group:** UNS R30031 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 %	0.450 - 0.550
Chromium	Cr %	24.500 - 26.500
Iron	Fe %	2.000 max.
Manganese	Mn %	1.000 max.
Nickel	Ni %	9.500 - 11.500
Silicon	Si %	1.000 max.
Tungsten	W %	7.000 - 8.000
Cobalt	Co %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing

Mechanical Properties	
Tensile Strength in Mpa	737.700 min.
Yield Strength in Mpa	-
Elongation in %	10 min.
Reduction of Area in %	-
Hardness in HRC	28 - 35
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Stellite 31	Gravity	India	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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