

# Material: UNS R30027

## Standard Specification for Cobalt-Based alloy

**Group:** Non-Ferrous Cobalt Alloys

**Sub Group:** UNS R30027 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 %	0.400 max.
Silicon	Si %	0.600 max.
Manganese	Mn %	0.300 max.
Chromium	Cr %	25.000 max.
Nickel	Ni %	32.000 max.
Molybdenum	Mo %	5.500 max.
Iron	Fe %	1.000 max.
Cobalt	Co %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing

Mechanical Properties	
Tensile Strength in Mpa	330 min.
Yield Strength in Mpa	-
Elongation in %	12 min.
Reduction of Area in %	-
Hardness in HRC	22 min
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Stellite 27	Gravity	India	Casting
5378	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