

# Material: SAE 5385

## Standard Specification for Cobalt-Based alloy

**Group:** Non-Ferrous Cobalt Alloys

**Sub Group:** SAE 5385 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 %	0.200 - 0.300
Silicon	Si %	1.000 max.
Chromium	Cr %	25.000 - 29.000
Nickel	Ni %	1.750 - 3.750
Molybdenum	Mo %	5.000 - 6.000
Iron	Fe %	3.000 max.
Boron	B %	0.007 max.
Phosphorus	P %	0.040 max.
Manganese	Mn %	1.000 max.
Sulphur	S %	0.040 max.
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 HRC	34 min.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Stellite 21	Gravity	India	Casting
5819	SAE	USA	Wire
ERCCoCr-E	ASME	USA	Casting
ERCoCr-E	ASME	USA	Casting
R30021	UNS	USA	Casting
-	-	-	-
-	-	-	-

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