

# Material: SAE Stellite 1

## Standard Specification for Cobalt Alloy Castings, Wear and Corrosion Resistant

**Group:** Non-Ferrous Cobalt Alloys

**Sub Group:** SAE Stellite 1 Cobalt Alloy Castings, Wear and Corrosion Resistant

**Application:** Intended for Valve, Pump, General Engineering, Automotive, Medical and other Industries

**Grade Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Carbon	C %	2.000 - 3.000	As-Cast or Annealing	
Chromium	Cr %	26.000 - 33.000		
Iron	Fe %	6.000 max.		
Manganese	Mn %	1.000 max.		
Molybdenum	Mo %	1.000 max.		
Nickel	Ni %	3.000 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Silicon	Si %	0.400 - 2.000		
Tungsten	W %	11.000 - 14.000		
Cobalt	Co %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	-
-	-	-	Yield Strength in Mpa	-
-	-	-	Elongation in %	-
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRC	50 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
R30001	UNS	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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