

## Material: SAE L-605

### Standard Specification for Cobalt-Based alloy, Sheet, Strip, Foil and Plate

**Group:** Non-Ferrous Cobalt Alloys

**Sub Group:** SAE L-605 Cobalt-Based alloy, Sheet, Strip, Foil and Plate

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

**Grade Belongs to the Industry:** Sheet, Strip, Foil and Plate

Chemical Composition			Heat Treatment	
Carbon	C %	0.050 - 0.150	As-Cast or Annealing	
Manganese	Mn %	1.000 - 2.000		
Silicon	Si %	0.400 max.		
Chromium	Cr %	19.000 - 21.000		
Nickel	Ni %	9.000 - 11.000		
Tungsten	W %	14.000 - 16.000		
Iron	Fe %	3.000 max.		
Sulphur	S %	0.030 max.		
Phosphorus	P %	0.040 max.		
Cobalt	Co %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 861.800 min. Yield Strength in Mpa 310 - 593 Elongation in % 25 min. Reduction of Area in % - Hardness in BHN 230 - 302 Impact in Joule -	
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-	-	-		
-	-	-		
-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
F 90 R30605	ASTM	USA	Casting
R30605	UNS	USA	Casting
F2527 R30605	ASTM	USA	Sheet, Strip, Foil and Plate
5832-4	ISO	International	Casting
5832-5	ISO	International	Casting
7402-3	JIS	Japan	Casting
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