

Material: SAE HS-188

Standard Specification for Cobalt Alloy, Corrosion and Heat Resistant, Sheet, Strip, and Plate

Group: Non-Ferrous Cobalt Alloys

Sub Group: SAE HS-188 Cobalt Alloy, Corrosion and Heat Resistant, Sheet, Strip, and Plate

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

Grade Belongs to the Industry: Sheet, Strip and Plate

Chemical Composition			Heat Treatment	
Carbon	C %	0.050 - 0.150	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.200 - 0.500		
Manganese	Mn %	1.250 max.		
Chromium	Cr %	20.000 - 24.000		
Boron	B %	0.015 max.		
Iron	Fe %	3.000 max.		
Lanthanum	La %	0.020 - 0.120		
Tungsten	W %	13.000 - 16.000		
Nickel	Ni %	20.000 - 24.000		
Phosphorus	P %	0.020 max.		
			Mechanical Properties	
Sulphur	S %	0.015 max.	Tensile Strength in Mpa	861.8 min.
Cobalt	Co %	Balance	Yield Strength in Mpa	379 min.
-	-	-	Elongation in %	40 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	302 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Udimet Alloy 188	Gravity	India	Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire
R30188	UNS	USA	Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire
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