

# 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		
Carbon	C %	0.050 - 0.150
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.
Sulphur	S %	0.015 max.
Cobalt	Co %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment	
As-Cast or Annealing or Age Hardning	

Mechanical Properties	
Tensile Strength in Mpa	861.8 min.
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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