

Material: UNS R30188

Standard Specification for Nickel-Iron Alloy Pipe, Tube, Sheet, Strip, Plate, Round Bar, Flat Bar, Forging Stock, Hexagon and Wire

Group: Non-Ferrous Cobalt Alloys

Sub Group: UNS R30188 Nickel-Iron Alloy Pipe, Tube, Sheet, Strip, Plate, Round Bar, Flat Bar, Forging Stock, Hexagon and Wire

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

Grade Belongs to the Industry: Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire

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
Iron	Fe %	3.000 max.
Lanthanum	La %	0.300 - 0.150
Tungsten	W %	13.000 - 16.000
Nickel	Ni %	20.000 - 24.000
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
HS-188	SAE	USA	Sheet, Strip and Plate
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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