



**GRAVITY CAST PVT. LTD.**  
GRAVITY GROUP OF COMPANIES

## 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			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		
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		
-	-	-		
			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
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

**ONE STOP SOLUTION FOR METAL PARTS**