



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - Gravity NIMONIC Alloy PE11

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

Group - Non-Ferrous Nickel Alloys

Sub Group - Gravity NIMONIC Alloy PE11 Nickel-Iron-Chromium Alloy Pipe, Tube, Sheet, Strip, Plate, Round Bar, Flat Bar, Forging Stock, Hexagon and Wire

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

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

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 - 0.080	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 max.		
Manganese	Mn %	0.200 max.		
Chromium	Cr %	17.000 - 19.000		
Sulphur	S %	0.015 max.		
Molybdenum	Mo %	4.750 - 5.750		
Aluminium	Al %	0.700 - 1.000		
Boron	B %	0.001 max.		
Copper	Cu %	0.500 max.		
Cobalt	Co %	1.000 max.		
Titanium	Ti %	2.200 - 2.500	Mechanical Properties Tensile Strength in Mpa 1080 min. Yield Strength in Mpa 720 min. Elongation in % 21 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
Zirconium	Zr %	0.020 - 0.050		
Nickel	Ni %	37.000 - 41.000		
Iron	Fe %	Balance		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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-	-	-	-
-	-	-	-
-	-	-	-
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Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email 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.

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