

Material - Gravity Incoloy Alloy 825

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

Group - Non-Ferrous Nickel Alloys

Sub Group - Gravity Incoloy Alloy 825 Seamless Nickel and Nickel 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 %	0.050 max.		
Silicon	Si %	0.500 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	19.500 - 23.500	As-Cast or Annealing or Age Hardning	
Sulphur	S %	0.030 max.		
Molybdenum	Mo %	2.500 - 3.500		
Copper	Cu %	1.500 - 3.000		
Aluminium	Al %	0.200 max.		
Titanium	Ti %	0.600 - 1.200	Mechanical Properties	
Nickel	Ni %	38.000 - 46.000	Tensile Strength in Mpa	586 - 1100
Iron	Fe %	22.000 min.	Yield Strength in Mpa	324 - 889
-	-	-	Elongation in %	15 - 45
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-		Impact in Joule	-

Cross Reference Table					
Material	Standard	Country	Grade Belong to the Industry		
B 163 N08825	ASTM	USA	Tube		
B 423 N08825	ASTM	USA	Pipe and Tube		
B 564 N08825	ASTM	USA	Forging		
B 704 N08825	ASTM	USA	Tube		
B 705 N08825	ASTM	USA	Pipe		
SB-163 N08825	ASME	USA	Tube		
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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

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