



Material - ASTM B1007 N07725 Type 1

Standard Specification for Precipitation Hardenable or Cold Worked, Nickel Alloy Tube

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B1007 N07725 Type 1 Precipitation Hardenable or Cold Worked, Nickel Alloy Tube

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

Grade Belongs to the Industry - Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.200 max.		
Manganese	Mn %	0.350 max.		
Chromium	Cr %	19.000 - 22.500		
Sulphur	S %	0.010 max.		
Molybdenum	Mo %	7.000 - 9.500		
Phosphorus	P %	0.015 max.		
Niobium	Nb %	2.750 - 4.000		
Titanium	Ti %	1.000 - 1.700		
Aluminium	Al %	0.350 max.		
Nickel	Ni %	55.000 - 59.000	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	1035 min.
-	-	-	Yield Strength in Mpa	827 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRC	43 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 805 N07725	ASTM	USA	Bar and Wire
B 872 N07725	ASTM	USA	Plate, Sheet and Strip
B 983 N07725 Type 1	ASTM	USA	Pipe and Tube
B 983 N07725 Type 2	ASTM	USA	Pipe and Tube
B1007 N07725 Type 2	ASTM	USA	Tube
B1007 N07725 Type 3	ASTM	USA	Tube
N07725	UNS	USA	Pipe and Tube

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.