

Material: ASTM B 564 N08825

Standard Specification for Nickel Alloy Forgings

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM B 564 N08825 Nickel Alloy Forgings

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

Grade Belongs to the Industry: Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.050 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	19.500 - 23.500		
Sulphur	S %	0.030 max.		
Molybdenum	Mo %	2.500 - 3.500		
Aluminium	Al %	0.200 max.		
Titanium	Ti %	0.600 - 1.200		
Copper	Cu %	1.500 - 3.000		
Iron	Fe %	22.000 max.		
Nickel	Ni %	38.000 - 46.000	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	586 min.
-	-	-	Yield Strength in Mpa	241 min.
-	-	-	Elongation in %	30 min.
-	-	-	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 704 N08825	ASTM	USA	Tube
B 705 N08825	ASTM	USA	Pipe
SB-163 N08825	ASME	USA	Tube
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