

Material: ASTM B 473 N08020

Standard Specification for Nickel Alloy Bar and Wire

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM B 473 N08020 Nickel Alloy Bar and Wire

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

Grade Belongs to the Industry: Bar and Wire

Chemical Composition			Heat Treatment	
Carbon	C %	0.070 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Copper	Cu %	3.000 - 4.000		
Sulphur	S %	0.035 max.		
Chromium	Cr %	19.000 - 21.000		
Phosphorus	P %	0.045 max.		
Molybdenum	Mo %	2.000 - 3.000		
Nb + Ta	Nb% + Ta%	1.000 max.		
Nickel	Ni %	32.000 - 38.000	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	551 min.
-	-	-	Yield Strength in Mpa	241 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	40 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 462 N08020	ASTM	USA	Pipe Flange, Forged Fitting and Valve
B 463 N08020	ASTM	USA	Plate, Sheet and Strip
B 464 N08020	ASTM	USA	Pipe
B 468 N08020	ASTM	USA	Tube
B 472 N08020	ASTM	USA	Billets and Bars for Reforging
B 475 N08020	ASTM	USA	Wire
B 729 N08020	ASTM	USA	Pipe and Tube

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