

Material: UNS N08120

Standard Specification for Nickel Alloy Forgings

Group: Non-Ferrous Nickel Alloys

Sub Group: UNS N08120 Nickel Alloy Forgings

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

Grade Belongs to the Industry: Forging

Chemical Composition		
Carbon	C %	0.020 - 0.100
Silicon	Si %	1.000 max.
Manganese	Mn %	1.500 max.
Chromium	Cr %	23.000 - 27.000
Sulphur	S %	0.030 max.
Copper	Cu %	0.500 max.
Phosphorus	P %	0.040 max.
Aluminium	Al %	0.400 max.
Titanium	Ti %	0.200 max.
Niobium	Nb %	0.400 - 0.900
Molybdenum	Mo %	2.500 max.
Tungsten	W %	2.500 max.
Cobalt	Co %	3.000 max.
Nitrogen	N %	0.150 - 0.300
Boron	B %	0.010 max.

Chemical Composition		
Nickel	Ni %	35.000 -
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
Heat Treatment		
As-Cast or Annealing or Age Hardning		
Mechanical Properties		
Tensile Strength in Mpa	621 min.	
Yield Strength in Mpa	276 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 N08120	ASTM	USA	Tube
B 407 N08120	ASTM	USA	Pipe and Tube
B 408 N08120	ASTM	USA	Rod and Bar
B 409 N08120	ASTM	USA	Plate, Sheet and Strip
SB-163 N08120	ASME	USA	Tube
B 564 N08120	ASTM	USA	Forging
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