

Material: ASTM B 564 N06059

Standard Specification for Nickel Alloy Forgings

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM B 564 N06059 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 %	0.010 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.100 max.		
Manganese	Mn %	0.500 max.		
Chromium	Cr %	22.000 - 24.000		
Sulphur	S %	0.010 max.		
Molybdenum	Mo %	15.000 - 16.500		
Phosphorus	P %	0.015 max.		
Cobalt	Co %	0.300 max.		
Copper	Cu %	0.500 max.		
Aluminium	Al %	0.100 - 0.400		
Iron	Fe %	1.500 max.	Mechanical Properties	
Nickel	Ni %	Balance	Tensile Strength in Mpa	690 min.
-	-	-	Yield Strength in Mpa	310 min.
-	-	-	Elongation in %	45 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 574 N06059 Grade 1	ASTM	USA	Rod
B 575 N06059	ASTM	USA	Plate, Sheet and Strip
B 462 N06059	ASTM	USA	Pipe Flanges, Forged Fittings, and Valve
B 619 N06059	ASTM	USA	Pipe
B 622 N06059	ASTM	USA	Pipe and Tube
B 626 N06059	ASTM	USA	Tube
B 472 N06059	ASTM	USA	Billets and Bars

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