



Material - ASTM B 649 N08031

Standard Specification for Ni-Fe-Cr-Mo-Cu Low-Carbon Alloy, Ni-Fe-Cr-Mo-Cu-N Low-Carbon Alloys and Cr-Ni-Fe-N Low-Carbon Alloy Bar and Wire

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 649 N08031 Ni-Fe-Cr-Mo-Cu Low-Carbon Alloy, Ni-Fe-Cr-Mo-Cu-N Low-Carbon Alloys and Cr-Ni-Fe-N Low-Carbon 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 %	0.015 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.300 max.		
Manganese	Mn %	2.000 max.		
Chromium	Cr %	26.000 - 28.000		
Sulphur	S %	0.010 max.		
Molybdenum	Mo %	6.000 - 7.000		
Phosphorus	P %	0.020 max.		
Nitrogen	N %	0.150 - 0.250	Mechanical Properties	
Copper	Cu %	1.000 - 1.400	Tensile Strength in Mpa	650 min.
Nickel	Ni %	30.000 - 32.000	Yield Strength in Mpa	270 min.
Iron	Fe %	Balance	Elongation in %	40 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 564 N08031	ASTM	USA	Forging
B 472 N08031	ASTM	USA	Billets and Bars
B 462 N08031	ASTM	USA	Pipe Flanges, Forged Fittings and Valve
B 619 N08031	ASTM	USA	Pipe
B 622 N08031	ASTM	USA	Pipe and Tube
B 626 N08031	ASTM	USA	Tube
SB-564 N08031	ASME	USA	Forging

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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