



Material - UNS N30002

Standard Specification for Castings, Nickel and Nickel Alloy

Group - Non-Ferrous Nickel Alloys

Sub Group - UNS N30002 Castings, Nickel and Nickel Alloy

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment			
Carbon	C %	0.120 max.	As-Cast or Annealing or Age Hardning			
Silicon	Si %	1.000 max.				
Manganese	Mn %	1.000 max.				
Phosphorus	P %	0.030 max.				
Sulphur	S %	0.030 max.				
Chromium	Cr %	15.500 - 17.500				
Tungsten	W %	3.750 - 5.250				
Molybdenum	Mo %	16.000 - 18.000				
Vanadium	V %	0.200 - 0.400				
Iron	Fe %	4.500 - 7.500				
Nickel	Ni %	Balance	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	495 min.		
-	-	-	Yield Strength in Mpa	275 min.		
-	-	-	Elongation in %	4 min.		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in BHN	175 - 215		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A 494 CW12MW	ASTM	USA	Casting
SA-494 CW12MW	ASME	USA	Casting
C-NiMo17Cr16Fe6W4	AFNOR NF	France	Casting
NC0002	AFNOR NF	France	Casting
NC16D16Fe5W5-M	AFNOR NF	France	Casting
-	-	-	-
-	-	-	-

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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