

Material: ASTM A 494 CU5MCuC

Standard Specification for Castings, Nickel and Nickel Alloy

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM A 494 CU5MCuC 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 %	0.050 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 %	0.020 max.		
Chromium	Cr %	19.500 - 23.500		
Nickel	Ni %	38.000 - 44.000		
Molybdenum	Mo %	2.500 - 3.500		
Niobium	Nb %	0.600 - 1.200		
Copper	Cu %	1.500 - 3.500		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	520 min.
-	-	-	Yield Strength in Mpa	240 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-494 CU5MCuC	ASME	USA	Casting
C-NiFe30Cr20Mo3CuNb	AFNOR NF	France	Casting
NC8826	AFNOR NF	France	Casting
N08826	UNS	USA	Casting
-	-	-	-
-	-	-	-
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