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		
Carbon	C %	0.050 max.
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
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing or Age Hardning

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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