

Material: ASME SA-494 CW6MC

Standard Specification for Castings, Nickel and Nickel Alloy

Group: Non-Ferrous Nickel Alloys

Sub Group: ASME SA-494 CW6MC 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 %	0.060 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.015 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	20.000 - 23.000		
Niobium	Nb %	3.150 - 4.500		
Molybdenum	Mo %	8.000 - 10.000		
Iron	Fe %	5.000 max.	Mechanical Properties	
Nickel	Ni %	Balance	Tensile Strength in Mpa	485 min.
-	-	-	Yield Strength in Mpa	275 min.
-	-	-	Elongation in %	25 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A 494 CW6MC	ASTM	USA	Casting
C-NiCr22Mo9Nb4	AFNOR NF	France	Casting
NC22D9Nb4-M	AFNOR NF	France	Casting
NC6625	AFNOR NF	France	Casting
N26625	UNS	USA	Casting
-	-	-	-
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