

Material: ASME SA-494 CW6M

Standard Specification for Castings, Nickel and Nickel Alloy

Group: Non-Ferrous Nickel Alloys

Sub Group: ASME SA-494 CW6M 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 %	0.070 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.030 max.
Sulphur	S %	0.020 max.
Chromium	Cr %	17.000 - 20.000
Iron	Fe %	3.000 max.
Molybdenum	Mo %	17.000 - 20.000
Nickel	Ni %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As-Cast or Annealing or Age Hardning	

Mechanical Properties	
Tensile Strength in Mpa	495 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 CW6M	ASTM	USA	Casting
C-NiCr18Mo18	AFNOR NF	France	Casting
NC0107	AFNOR NF	France	Casting
N30107	UNS	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-

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