

Material: ASME SA-494 CY40 Class 1

Standard Specification for Castings, Nickel and Nickel Alloy

Group: Non-Ferrous Nickel Alloys

Sub Group: ASME SA-494 CY40 Class 1 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 %	0.400 max.
Silicon	Si %	3.000 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.030 max.
Sulphur	S %	0.020 max.
Chromium	Cr %	14.000 - 17.000
Iron	Fe %	11.000 max.
Nickel	Ni %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing or Age Hardning

Mechanical Properties	
Tensile Strength in Mpa	485 min.
Yield Strength in Mpa	195 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A 494 CY40	ASTM	USA	Casting
SA-494 CY40 Class 2	ASME	USA	Casting
C-NiCr15Fe	AFNOR NF	France	Casting
NC16Fe11-M	AFNOR NF	France	Casting
NC6040	AFNOR NF	France	Casting
NCrFC	JIS	Japan	Casting
N06040	UNS	USA	Casting

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