

Material: ASTM A 494 N12MV

Standard Specification for Castings, Nickel and Nickel Alloy

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM A 494 N12MV 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 %	0.120 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.030 max.
Sulphur	S %	0.020 max.
Chromium	Cr %	1.000 max.
Vanadium	V %	0.200 - 0.600
Molybdenum	Mo %	26.000 - 30.000
Iron	Fe %	4.000 - 6.000
Nickel	Ni %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing or Age Hardning

Mechanical Properties	
Tensile Strength in Mpa	525 min.
Yield Strength in Mpa	275 min.
Elongation in %	6 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-494 N12MV	ASME	USA	Casting
C-NiMo30Fe5	AFNOR NF	France	Casting
NC0007	AFNOR NF	France	Casting
ND28-M	AFNOR NF	France	Casting
-	-	-	-
-	-	-	-
-	-	-	-

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