

# 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			Heat Treatment	
Carbon	C %	0.120 max.	As-Cast or Annealing or Age Hardning	
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	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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