

Material: ASME SA-494 N12MV

Standard Specification for Castings, Nickel and Nickel Alloy

Group: Non-Ferrous Nickel Alloys

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