

Material: ASME SA-494 N7M

Standard Specification for Castings, Nickel and Nickel Alloy

Group: Non-Ferrous Nickel Alloys

Sub Group: ASME SA-494 N7M 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 %	0.070 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.		
Iron	Fe %	3.000 max.		
Molybdenum	Mo %	30.000 - 33.000		
Nickel	Ni %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	525 min.
-	-	-	Yield Strength in Mpa	275 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A 494 N7M	ASTM	USA	Casting
C-NiMo31	AFNOR NF	France	Casting
NC0012	AFNOR NF	France	Casting
ND30-M	AFNOR NF	France	Casting
N30007	UNS	USA	Casting
N30012	UNS	USA	Casting
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