

Material: ASTM A747 Grade CB7Cu-1 (H1075)

Standard Specification for Steel Castings, Stainless, Precipitation Hardening

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A747 / A747M Steel Castings, Stainless, Precipitation Hardening

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.	Normalising or Annealing or Hardening + Tempering			
Silicon	Si %	1.000 max.				
Manganese	Mn %	0.700 max.				
Phosphorus	P %	0.035 max.				
Sulphur	S %	0.030 max.				
Chromium	Cr %	15.500 17.700				
Nickel	Ni %	3.600 - 4.600				
Copper	Cu %	2.500 - 3.200				
Niobium	Nb %	0.150 - 0.350				
Nitrogen	N %	0.050 max.				
Iron	Fe %	Balance	Mechanical Properties			
-	-	-			Tensile Strength in Mpa	1000 min.
-	-	-			Yield Strength in Mpa	795 min
-	-	-			Elongation in %	9 min.
-	-	-			Reduction of Area in %	-
-	-	-			Hardness in BHN	277 min.
-	-	-			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J92180	UNS	USA	Casting
SA-747 CB7Cu-1	ASME	USA	Casting
17-4PH	SAE	USA	Steel
Z 7 CNU 17-04	AFNOR NF	France	Steel
5622	AMS	USA	Bar, Wire, Tube and Forging
X 5 CrNiCuNb 16-4	DIN	Germany	Steel
X 5 CrNiCuNb 16-4	EN	European Union	Forging

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