Material: ASME SA747 CB7Cu-1

Standard Specification for Iron-Chromium-Nickel-Copper Corrosion Resistant Steel Castings

Group: *Ferrous Stainless Steel Alloys*
Sub Group: *ASME SA747 CB7Cu-1 Iron-Chromium-Nickel-Copper Corrosion Resistant Steel Castings*
Application: *Intended for Valve, Pump, General Engineering, Automotive and Other Industries*
Grade Belongs to the Industry: *Casting*

Chemical Composition		
Carbon	C %	0.070 max.
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
Molybdenum	Mo %	0.150 - 0.350
Copper	Cu %	2.500 - 3.200
Nitrogen	N %	0.050 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	860 min.
Yield Strength in Mpa	670 min.
Elongation in %	5 min.
Reduction of Area in %	-
Hardness in HB	269 - 310
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
J92180	UNS	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
A747 Grade CB7Cu-1(H900)	ASTM	USA	Casting

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