



## 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			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				
Molybdenum	Mo %	0.150 - 0.350				
Copper	Cu %	2.500 - 3.200				
Nitrogen	N %	0.050 max.				
Iron	Fe %	Balance	<th colspan="2">Mechanical Properties</th>		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

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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