

Material: ASTM A747 Grade CB7Cu-1 (H1150)

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 <table border="1"> <tr> <td>Tensile Strength in Mpa</td> <td>860 min.</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>670 min.</td> </tr> <tr> <td>Elongation in %</td> <td>10 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in BHN</td> <td>269 min.</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </table>		Tensile Strength in Mpa	860 min.	Yield Strength in Mpa	670 min.	Elongation in %	10 min.	Reduction of Area in %	-	Hardness in BHN	269 min.	Impact in Joule	-
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-	-	-														
-	-	-														

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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