

Material-ASTMA747GradeCB7Cu-2(H1100)

Standard Specification for Steel Castings, Stainless, Precipitation Hardening

Group-Ferrous Stainless Steel Alloys

SubGroup-ASTMA747/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%	14.000- 15.500		
Nickel	Ni%	4.500 - 5.500		
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	930 min.
-	-	-	Yield Strength in Mpa	760 min
-	-	-	Elongation in %	9 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	269 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J92110	UNS	USA	Casting
J92130	UNS	USA	Casting
SA-747CB7Cu-2	ASME	USA	Casting
5356	AMS	USA	Casting
AMS 5346	SAE	USA	Casting
5400	AMS	USA	Casting
5357	AMS	USA	Casting

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