

Material: ASTM B271 C95520

Standard Specification for Copper-Base Alloy Centrifugal Casting

Group: Non-Ferrous Copper Alloy

Sub Group: ASTM B271 Copper-Base Alloy Centrifugal Casting

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Aluminium	Al %	10.500 - 11.500	As-Cast or Solution Annealing or Annealing	
Cobalt	Co %	0.200 max.		
Chromium	Cr %	0.050 max.		
Iron	Fe %	4.000 - 5.500		
Manganese	Mn %	1.500 max.		
Ni + Co	Ni% + Co%	4.200 - 6.000		
Lead	Pb %	0.030 max.		
Silicon	Si %	0.150 max.		
Tin	Sn %	0.250 max.		
Zinc	Zn %	0.300 max.		
Copper	Cu %	74.500 min.	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	862 min.
			Yield Strength in Mpa	655 min.
			Elongation in %	3 min.
			Reduction of Area in %	-
			Hardness in HB	262 min.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C95520	UNS	USA	Rod, Bar, Tube and Shapes
B30 C95520	ASTM	USA	Ingot and Casting
B505 C95520	ASTM	USA	Casting
SB-148 C95520	ASME	USA	Casting
78Cu-11Al-5.1Ni-4.8Fe	SAE	USA	Casting
-	-	-	-
-	-	-	-

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