

Material: ASTM B505 Nickel-Aluminium Bronze UNS C95520

Standard Specification for Copper Alloy Continuous Casting

Group: Non-Ferrous Copper Alloy

Sub Group: ASTM B505 / 505M Copper Alloys for Continuous Casting

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

Belongs to the Industry: Rod, Bar, Tube and Shapes

Chemical Composition			Heat Treatment	
Tin	Sn %	0.250 max.	As-Cast or Solution Annealing or Annealing	
Lead	Pb %	0.030 max.		
Zinc	Zn %	0.300 max.		
Ni + Cu	Ni% + Cu%	4.200 - 6.000		
Iron	Fe %	4.000 - 5.500		
Manganese	Mn %	1.500 max.		
Aluminium	Al %	10.000 - 11.500		
Copper	Cu %	74.500 min.		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	862 min.
			Yield Strength in Mpa	655 min.
			Elongation in %	8 min.
			Reduction of Area in %	-
			Hardness in BHN	262 min.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B30 C95520	ASTM	USA	Ingot and Casting
B271 C95520	ASTM	USA	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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