

Material: AS/NZS 1565 C94100

Standard Specification for Copper and Copper Alloys - Ingot and Casting

Group: Non-Ferrous Copper Alloy

Sub Group: AS/NZS 1565 Copper and Copper Alloys - Ingot and Casting

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

Belongs to the Industry: Ingot and Casting

Chemical Composition			Heat Treatment	
Aluminium	Al %	0.005 max.	As-Cast	
Iron	Fe %	0.250 max.		
Nickel	Ni %	1.000 max.		
Phosphorus	P %	1.500 max.		
Lead	Pb %	18.000 - 22.000		
Sulphur	S %	0.080 max.		
Antimony	Sb %	0.800 max.		
Silicon	Si %	0.005 max.		
Tin	Sn %	4.700 - 6.500		
Zinc	Zn %	1.000 max.		
Copper	Cu %	72.000 - 79.000	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	160 - 190
			Yield Strength in Mpa	60 - 100
			Elongation in %	5 - 8
			Reduction of Area in %	-
			Hardness in HB	45 - 50
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C94100	UNS	USA	Rod, Bar, Tube and Shapes
B30 C94100	ASTM	USA	Ingot and Casting
B505 C94100	ASTM	USA	Casting
SB-505 C94100	ASME	USA	Casting
941C	AS	Australia	Casting
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-	-	-	-

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