

Material: SAE AMS 4590

Standard Specification for Extrusions, Nickel-Aluminum Bronze Alloy

Group: Non-Ferrous Copper Alloy

Sub Group: SAE AMS Extrusions, Nickel-Aluminum Bronze Alloy

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

Belongs to the Industry: Casting

Chemical Composition		
Aluminium	Al %	10.000 - 11.000
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.
Tin	Sn %	0.250 max.
Zinc	Zn %	0.300 max.
Copper	Cu %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Hardening and Tempering

Mechanical Properties	
Tensile Strength in Mpa	896 - 931
Yield Strength in Mpa	621 - 689
Elongation in %	6 min.
Reduction of Area in %	-
Hardness in HRB	26 min.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
C63020	UNS	USA	Rod, Bar, Tube and Shapes
B150 C63020	ASTM	USA	Rod, Bar and Shape
SB-150 C63020	ASME	USA	Rod, Bar and Shape
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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