Material: ASME SB-584 C93800

Standard Specification for Copper Alloy Sand Casting for General Applications

Group: *Non-Ferrous Copper Alloy*

Sub Group: *ASME SB-584 Copper Alloy Sand Casting for General Applications*

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

Belongs to the Industry: *Casting*

Chemical Composition		
Aluminium	Al %	0.005 max.
Iron	Fe %	0.150 max.
Ni + Cu	Ni% + Cu%	1.000 max.
Phosphorus	P %	0.050 max.
Lead	Pb %	13.000 - 16.000
Sulphur	S %	0.080 max.
Antimony	Sb %	0.800 max.
Silicon	Si %	0.005 max.
Tin	Sn %	6.300 - 7.500
Zinc	Zn %	0.800 max.
Copper	Cu %	75.000 - 79.000
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast

Mechanical Properties	
Tensile Strength in Mpa	179 min.
Yield Strength in Mpa	97 min.
Elongation in %	12 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
C93800	UNS	USA	Rod, Bar, Tube and Shapes
B30 C93800	ASTM	USA	Ingot and Casting
B66 C93800	ASTM	USA	Ingot and Casting
SB-505 C93800	ASME	USA	Casting
C93800	SAE	USA	Casting
CA938	SAE	USA	Casting
CACIn604	KS	Korea	Ingot and Casting

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