

Material: ASTM B176 UNS C86500

Standard Specification for Copper Alloy Die Castings

Group: Non-Ferrous Copper Alloy

Sub Group: ASTM B176 Copper Alloy Die Castings

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

Belongs to the Industry: Casting

Chemical Composition		
Tin	Sn %	1.000 max.
Lead	Pb %	0.400 max.
Zinc	Zn %	36.000 - 42.000
Iron	Fe %	0.400 - 2.000
Ni + Cu	Ni% + Cu%	1.000 max.
Aluminium	Al %	0.500 - 1.500
Manganese	Mn %	0.100 - 1.500 max.
Copper	Cu %	55.000 - 60.000
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast

Mechanical Properties	
Tensile Strength in Mpa	-
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B147-8A	ASTM	USA	Casting
SB-505 C86500	ASME	USA	Casting
SB-584 C86500	SAE	USA	Casting
C86500	SAE	USA	Casting
CA865	SAE	USA	Casting
SAE 43	SAE	USA	Casting
C86500	AS	Australia	Casting

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