

ASTM B271 High-Strength Yellow Brass UNS C86300

Standard Specification for Copper-Base Alloy Centrifugal Castings

Group: Non-Ferrous Copper Alloy

Sub Group: ASTM B271 Copper-Base Alloy Centrifugal Castings

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

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

Chemical Composition		
Tin	Sn %	0.200 max.
Lead	Pb %	0.200 max.
Zinc	Zn %	22.000 - 28.000
Iron	Fe %	2.000 - 4.000
Ni + Co	Ni% + Co%	1.000 max.
Aluminium	Al %	5.000 - 7.500
Manganese	Mn %	2.500 - 5.000
Copper	Cu %	60.000 - 66.000
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast

Mechanical Properties	
Tensile Strength in Mpa	758 min.
Yield Strength in Mpa	414 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
B271 C86300	ASTM	USA	Casting
B30 C86300	ASTM	USA	Ingot and Casting
CA863	SAE	USA	Casting
SAE 430B	SAE	USA	Casting
SB-505 C86300	ASME	USA	Casting
SB-584 C86300	ASME	USA	Casting
C86300	AS	Australia	Casting

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