

Material: ASTM B85 S12B

Standard Specification for Aluminium Alloys for Casting

Group: Non-Ferrous Aluminium Alloy

Sub Group: ASTM B85/B85M Aluminium Alloys for Casting

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

Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Copper	Cu %	1.000 max.	As-Cast	
Iron	Fe %	2.000 max.		
Magnesium	Mg %	0.100 max.		
Manganese	Mn %	0.350 max.		
Nickel	Ni %	0.500 max.		
Silicon	Si %	11.000 - 13.000		
Tin	Sn %	0.150 max.		
Zinc	Zn %	0.500 max.		
Other	Ot%	0.250 max.		
Aluminium	Al %	Balance		
-	-	-	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	295 min.
			Yield Strength in Mpa	145 min.
			Elongation in %	2.5 min.
			Reduction of Area in %	-
			Hardness in HB	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 275 S12B	ASTM	USA	Casting
A04130	UNS	USA	Casting
A04130	SAE	USA	Casting
13	AA	USA	Casting
413.0	NBR	Brazil	Casting
413.0	NMX	Maxico	Casting
413.0	SAE	USA	Casting

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