

Material: ANSI/AA 218

Standard Specification for Aluminium Alloy for General Engineering and Light-Weight Structural Purpose

Group: Non-Ferrous Aluminium Alloy

Sub Group: ANSI/AA Aluminium Alloy for General Engineering and Light-Weight Structural Purpose

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

Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Silicon	Si %	0.350 max.	As-Cast	
Iron	Fe %	1.800 max.		
Copper	Cu %	0.250 max.		
Magnesium	Mg %	7.500 - 8.500		
Manganese	Mn %	0.350 max.		
Nickel	Ni %	0.150 max.		
Zinc	Zn %	0.150 max.		
Tin	Sn %	0.150 max.		
Other	Ot%	0.250 max.		
Aluminium	Al %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	310 min.
-	-	-	Yield Strength in Mpa	193 min
-	-	-	Elongation in %	5 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	80 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B275 G8A	ASTM	USA	Casting
B85 G8A	ASTM	USA	Casting
B275 518.0	ASTM	USA	Casting
B85 518.0	ASTM	USA	Casting
A05180	UNS	USA	Casting
518.0	SAE	USA	Casting
ADC5	JIS	Japan	Casting

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