

Material: ANSI/AA 43

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 %	4.500 - 6.000	As-Cast	
Iron	Fe %	2.000 max.		
Copper	Cu %	0.600 max.		
Magnesium	Mg %	0.100 max.		
Manganese	Mn %	0.350 max.		
Nickel	Ni %	0.500 max.		
Zinc	Zn %	0.500 max.		
Tin	Sn %	0.150 max.		
Other	Ot%	0.250 max.		
Aluminium	Al %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 228 min. Yield Strength in Mpa 97 min. Elongation in % 9 min. Reduction of Area in % - Hardness in BHN 65 min. Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B179 443.1	ASTM	USA	Casting
B275 443.1	ASTM	USA	Casting
A04431	UNS	USA	Casting
A04430	UNS	USA	Casting
SB-108 AA3.0	ASME	USA	Casting
A413.0	NBR	Brazil	Casting
A413.0	NMX	Maxico	Casting

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