Material: ANSI/AA 383

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

Group: *Non-Ferrous Alumium 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		
Silicon	Si %	9.500 - 11.500
Iron	Fe %	1.300 max.
Copper	Cu %	2.000 - 3.000
Magnesium	Mg %	0.100 max.
Manganese	Mn %	0.500 max.
Nickel	Ni %	0.300 max.
Zinc	Zn %	3.000 max.
Tin	Sn %	0.150 max.
Other	Ot%	0.500 max.
Aluminium	Al %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast

Mechanical Properties	
Tensile Strength in Mpa	310 min.
Yield Strength in Mpa	152 min
Elongation in %	3.5 min.
Reduction of Area in %	-
Hardness in BHN	75 min.
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
B 275 383.0	ASTM	USA	Casting
AA335	AS	Australia	Ingots and Casting
A03830	UNS	USA	Ingots and Casting
A03830	SAE	USA	Ingots and Casting
383.0	NBR	Brazil	Casting
383.0	NMX	Maxico	Casting
B 85 SC102A	ASTM	USA	Casting

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