



## 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		
-	-	-	<b>Mechanical Properties</b> 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

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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