



## Material - ANSI/AA B390

**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 %	16.000 - 18.000	As-Cast	
Iron	Fe %	1.300 max.		
Copper	Cu %	4.000 - 5.000		
Magnesium	Mg %	0.450 - 0.650		
Manganese	Mn %	0.500 max.		
Nickel	Ni %	0.100 max.		
Zinc	Zn %	1.500 max.		
Titanium	Ti %	0.100 max.		
Other	Ot%	0.200 max.		
Aluminium	Al %	Balance		
-	-	-	<b>Mechanical Properties</b>	
-	-	-	Tensile Strength in Mpa	317 min.
-	-	-	Yield Strength in Mpa	248 min
-	-	-	Elongation in %	1 max.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	120 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-48100	DIN	Germany	Casting
EN AC-48100	ASME	USA	Casting
EN AC-48100	UNI	Italy	Casting
EN AC-48100	AFNOR NF	France	Casting
EN AC-48100	UNE	Spain	Casting
EN AC-48100	SFS	Finland	Casting
EN AC-48100	MSZ	Hungary	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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