



## Material - IS 617 4420

**Standard Specification for Aluminium and Aluminium Alloys - Ingot and Casting for General Engineering Purposes**

**Group - Non-Ferrous Aluminium Alloy**

**Sub Group - IS 617 4420 Aluminium and Aluminium Alloys - Ingot and Casting for General Engineering Purposes**

**Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries**

**Grade Belongs to the Industry - Ingot and Casting**

Chemical Composition			Heat Treatment	
Copper	Cu %	3.000 - 4.000	As-Cast	
Magnesium	Mg %	0.100 max.		
Silicon	Si %	3.500 - 9.500		
Iron	Fe %	1.300 max.		
Manganese	Mn %	0.500 max.		
Nickel	Ni %	0.500 max.		
Tin	Sn %	0.300 max.		
Zinc	Zn %	1.000 max.		
Other	Ot%	0.500 max.		
Aluminium	Al %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      180 - 325 Yield Strength in Mpa      160 min. Elongation in %      1.500 - 3.500 Reduction of Area in %      - Hardness in BHN      - Impact in Joule      -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
LM24	BS	British	Ingot and Casting
AS313	AS	Australia	Ingot and Casting
BB325	AS	Australia	Ingot and Casting
CA313	AS	Australia	Ingot and Casting
ADC10Z	JIS	Japan	Ingot and Casting
380.0	AA	USA	Ingot and Casting
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**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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