



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - BS 1490 LM31

**Standard Specification for Aluminium and Aluminium Alloy Ingots and Casting for General Engineering Purpose**

**Group - Non-Ferrous Aluminium Alloy**

**Sub Group - Aluminium Alloy BS 1490 for Ingots and Casting General Engineering Purpose**

**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 %	0.100 max.	As-Cast	
Magnesium	Mg %	0.500 - 0.750		
Silicon	Si %	0.250 max.		
Iron	Fe %	0.500 max.		
Manganese	Mn %	0.100 max.		
Nickel	Ni %	0.100 max.		
Zinc	Zn %	4.800 - 5.700		
Lead	Pb %	0.050 max.		
Tin	Sn %	0.050 max.		
Titanium	Ti %	0.250 max.		
Chromium	Cr %	0.400 - 0.600	<b>Mechanical Properties</b> Tensile Strength in Mpa   215 min. Yield Strength in Mpa   - Elongation in %   4 min. Reduction of Area in %   - Hardness in BHN   - Impact in Joule   -	
Other	Ot%	0.150 max.		
Aluminium	Al %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
712.0	AA	USA	Casting
Al Zn5Mg	ISO	International	Ingots and Casting
712.0	SAE	USA	Casting
BA701	AS	Australia	Ingots and Casting
L-2710	UNE	Spain	Ingots and Casting
B-26 712.0	ASTM	USA	Casting
A-Z5G	AFNOR NF	France	Ingots and 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)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

**ONE STOP SOLUTION FOR METAL PARTS**