



## Material - BS 1490 LM20

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

**Group - Non-Ferrous Aluminium Alloy**

**Sub Group - Aluminium Alloy BS 1490 for Ingot 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 %	0.400 max.	As-Cast	
Magnesium	Mg %	0.200 max.		
Silicon	Si %	10.000 - 13.000		
Iron	Fe %	1.000 max.		
Manganese	Mn %	0.500 max.		
Nickel	Ni %	0.100 max.		
Zinc	Zn %	0.200 max.		
Lead	Pb %	0.100 max.		
Tin	Sn %	0.100 max.		
Titanium	Ti %	0.200 max.		
Other	Ot%	0.200 max.	Mechanical Properties	
Aluminium	Al %	Balance	Tensile Strength in Mpa	190 min.
-	-	-	Yield Strength in Mpa	-
-	-	-	Elongation in %	5 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
AS401	AS	Australia	Ingot and Casting
DA401	AS	Australia	Ingot and Casting
A413.0	AA	USA	Ingot and Casting
AlSi12 (Fe)	ISO	International	Casting
ADC12	JIS	Japan	Casting
A413.0	NBR	Brazil	Ingot and Casting
A413.0	NMX	Maxico	Ingot 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)**

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