



## Material - ISO 3522 AlSi12 (Fe)

### Standard Specification for Aluminium and Aluminium Alloys - Casting

Group - Non-Ferrous Aluminium Alloy

Sub Group - ISO 3522 Aluminium and Aluminium Alloys - Casting

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Copper	Cu %	1.000 max.	As-Cast	
Manganese	Mn %	0.550 max.		
Silicon	Si %	10.500 - 13.500		
Iron	Fe %	1.000 max.		
Titanium	Ti %	0.150 max.		
Other	Ot%	0.250 max.		
Tin	Sn %	0.200 max.		
Zinc	Zn %	0.150 max.		
Aluminium	Al %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	240 min.
-	-	-	Yield Strength in Mpa	240 min.
-	-	-	Elongation in %	1 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	60 min.
-	-	-	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
ADC12	JIS	Japan	Casting
A413.0	NMX	Maxico	Ingot and Casting
LM20	BS	British	Ingot and Casting
A413.0	AA	USA	Ingot and Casting
A413.0	NBR	Brazil	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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