



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

## Material - ISO 3522 Al Si11Cu3(Fe)

### Standard Specification for Aluminium and Aluminium Alloys

Group - Non-Ferrous Aluminium Alloy

Sub Group - ISO 3522 for Aluminium and Aluminium Alloys

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Silicon	Si %	9.600 - 12.000	As-Cast	
Iron	Fe %	1.300 max.		
Copper	Cu %	1.500 - 3.500		
Manganese	Mn %	0.600 max.		
Magnesium	Mg %	0.350 max.		
Nickel	Ni %	0.450 max.		
Zinc	Zn %	1.700 max.		
Lead	Pb %	0.250 max.		
Tin	Sn %	0.250 max.		
Titanium	Ti %	0.250 max.		
Aluminium	Al %	Balance	Mechanical Properties	
0	0	0	Tensile Strength in Mpa	240 min.
0	0	-	Yield Strength in Mpa	140 min.
-	-	-	Elongation in %	-
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HBW	80 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
AA307	AS	Australia	Ingot and Casting
307	AS	Australia	Ingot and Casting
4520	IS	India	Ingot and Casting
ADC12	JIS	Japan	Ingot and Casting
ADC12Z	JIS	Japan	Ingot and Casting
383.0	AA	USA	Ingot and Casting
Al Si11Cu3(Fe)	JIS	Japan	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.

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