

# Material: ISO 3522 Al Si9Cu1Mg

## 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 %	8.300 - 9.700	As-Cast	
Iron	Fe %	0.800 max.		
Copper	Cu %	0.800 - 1.300		
Manganese	Mn %	0.150 - 0.550		
Magnesium	Mg %	0.250 - 0.650		
Nickel	Ni %	0.200 max.		
Zinc	Zn %	0.800 max.		
Lead	Pb %	0.100 max.		
Tin	Sn %	0.100 max.		
Titanium	Ti %	0.100 - 0.200 max.		
Other	Ot%	0.250 max.	Mechanical Properties	
Aluminium	Al %	Balance	Tensile Strength in Mpa	135 min.
-	-	-	Yield Strength in Mpa	90 min.
-	-	-	Elongation in %	1 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HBW	60 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-46400	DIN	Germany	Casting
EN AC-46400	BS	British	Casting
EN AC-46400	ASME	USA	Casting
EN AC-46400	UNI	Italy	Casting
EN AC-46400	AFNOR NF	France	Casting
EN AC-46400	UNE	Spain	Casting
EN AC-46400	SFS	Finland	Casting

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**Customer Care:** +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)