

# Material: ISO 3522 Al Si9

## 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 %	8.000 - 11.000	As-Cast	
Iron	Fe %	0.650 max.		
Copper	Cu %	0.100 max.		
Manganese	Mn %	0.500 max.		
Magnesium	Mg %	0.100 max.		
Nickel	Ni %	0.050 max.		
Zinc	Zn %	0.150 max.		
Lead	Pb %	0.050 max.		
Tin	Sn %	0.050 max.		
Titanium	Ti %	0.150 max.		
Other	Ot%	0.150 max.		
Aluminium	Al %	Balance		
-	-	-		
-	-	-		
-	-	-		

  

Mechanical Properties	
Tensile Strength in Mpa	220 min.
Yield Strength in Mpa	120 min.
Elongation in %	2 min.
Reduction of Area in %	-
Hardness in HBW	55 min.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-44000	ASME	USA	Casting
EN AC-44000	DIN	Germany	Casting
EN AC-44000	UNE	Spain	Casting
EN AC-44000	SFS	Finland	Casting
EN AC-44000	MSZ	Hungary	Casting
EN AC-44000	AFNOR NF	France	Casting
EN AC-44000	BDS	Bulgaria	Casting

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