

Material: ISO 3522 Al Si9Cu3(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 %	8.000 - 11.000	As-Cast	
Iron	Fe %	1.300 max.		
Copper	Cu %	2.000 - 4.000		
Manganese	Mn %	0.200 - 0.550		
Magnesium	Mg %	0.050 - 0.550		
Chromium	Cr %	0.150 max.		
Nickel	Ni %	0.500 max.		
Zinc	Zn %	1.200 max.		
Lead	Pb %	0.350 max.		
Tin	Sn %	0.250 max.		
Titanium	Ti %	0.250 max.		
Other	Ot%	0.250 max.		
Aluminium	Al %	Balance		
-	-	-		
-	-	-		

Mechanical Properties	
Tensile Strength in Mpa	240 min.
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
EN AC-46000	DIN	Germany	Casting
EN AC-46000	BS	British	Casting
EN AC-46000	ASME	USA	Casting
EN AC-46000	UNI	Italy	Casting
EN AC-46000	AFNOR NF	France	Casting
EN AC-46000	UNE	Spain	Casting
EN AC-46000	SFS	Finland	Casting

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