

Material: ISO 3522 Al Si10Mg (Cu)

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 %	9.000 - 11.000	As-Cast or Aging															
Iron	Fe %	0.650 max.																
Copper	Cu %	0.350 max.																
Manganese	Mn %	0.550 max.																
Magnesium	Mg %	0.200 - 0.450																
Nickel	Ni %	0.150 max.																
Zinc	Zn %	0.350 max.																
Lead	Pb %	0.100 max.																
Titanium	Ti %	0.200 max.																
Other	%	0.150 max.																
Aluminium	Al %	Balance																
0	0	0			<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>160 min.</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>80 min.</td> </tr> <tr> <td>Elongation in %</td> <td>1 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in HBW</td> <td>50 min.</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	160 min.	Yield Strength in Mpa	80 min.	Elongation in %	1 min.	Reduction of Area in %	-	Hardness in HBW	50 min.
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-43200	ASME	USA	Casting
EN AC-43200	DIN	Germany	Casting
EN AC-43200	BS	British	Casting
EN AC-43200	UNI	Italy	Casting
EN AC-43200	AFNOR NF	France	Casting
EN AC-43200	UNE	Spain	Casting
EN AC-43200	SFS	Finland	Casting

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