

## Material: ISO 3522 Al Si12(b)

### 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 %	10.500 - 13.500	As-Cast															
Iron	Fe %	0.650 max.																
Copper	Cu %	0.150 max.																
Manganese	Mn %	0.550 max.																
Magnesium	Mg %	0.100 max.																
Nickel	Ni %	0.100 max.																
Zinc	Zn %	0.150 max.																
Lead	Pb %	0.100 max.																
Titanium	Ti %	0.200 max.																
Other	-	0.150 max.																
Aluminium	Al %	Balance			<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>150 min.</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>70 min.</td> </tr> <tr> <td>Elongation in %</td> <td>4 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>0</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	150 min.	Yield Strength in Mpa	70 min.	Elongation in %	4 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 AB-44100	DIN	Germany	Ingot and Casting
EN AB-44100	BS	British	Ingot and Casting
EN AB-44100	SFS	Finland	Ingot and Casting
EN AB-44100	UNE	Spain	Ingot and Casting
EN AB-44100	UNI	Italy	Ingot and Casting
EN AB-44100	CSN	Czech Republic	Ingot and Casting
EN AB-44100	BDS	Bulgaria	Ingot and Casting

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