

Material: NBR 15975 413.0

Standard Specification for Aluminium Alloys for Casting

Group: Non-Ferrous Aluminium Alloy

Sub Group: NBR 15975 Aluminium Alloys for Casting

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

Belongs to the Industry: Casting

Chemical Composition			Heat Treatment													
Copper	Cu %	1.000 max.	As-Cast													
Iron	Fe %	2.000 max.														
Magnesium	Mg %	0.100 max.														
Manganese	Mn %	0.350 max.														
Nickel	Ni %	0.500 max.														
Silicon	Si %	11.000 - 13.000														
Tin	Sn %	0.150 max.														
Zinc	Zn %	0.500 max.														
Other	Ot%	0.250 max.														
Aluminium	Al %	Balance														
-	-	-	Mechanical Properties <table border="1"> <tr> <td>Tensile Strength in Mpa</td> <td>295 min.</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>145 min.</td> </tr> <tr> <td>Elongation in %</td> <td>2.5 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in HB</td> <td>-</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </table>		Tensile Strength in Mpa	295 min.	Yield Strength in Mpa	145 min.	Elongation in %	2.5 min.	Reduction of Area in %	-	Hardness in HB	-	Impact in Joule	-
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 275 S12B	ASTM	USA	Casting
A04130	UNS	USA	Casting
A04130	SAE	USA	Casting
B85 S12B	ASTM	USA	Casting
13	AA	USA	Casting
413.0	NMX	Maxico	Casting
413.0	SAE	USA	Casting

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