

Material - ASTM B275 443.1

Standard Practice for Codification of Certain Nonferrous Metals and Alloys, Cast and Wrought

Group - Non-Ferrous Aluminium Alloy

Sub Group - ASTM B275 Codification of Certain Nonferrous Metals and Alloys, Cast and Wrought

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Copper	Cu %	0.600 max.	As-Cast	
Iron	Fe %	0.600 max.		
Magnesium	Mg %	0.050 max.		
Manganese	Mn %	0.500 max.		
Chromium	Cr %	0.250 max.		
Silicon	Si %	4.500 - 6.000		
Titanium	Ti %	0.250 max.		
Zinc	Zn %	0.500 max.		
Other	Ot%	0.350 max.	Mechanical Properties	
Aluminium	Al %	Balance	Tensile Strength in Mpa	145 min.
-	-	-	Yield Strength in Mpa	49 min.
-	-	-	Elongation in %	2 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	45 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B179 443.1	ASTM	USA	Casting
43	AA	USA	Casting
A04431	UNS	USA	Casting
A04430	UNS	USA	Casting
SB-108 AA3.0	ASME	USA	Casting
A413.0	NBR	Brazil	Casting
A413.0	NMX	Maxico	Casting

For any further inquiries, please do not hesitate to contact us. You may visit our website at AMTECH TECHNOCAST PVT. LTD., call us at [+91 9879817994](tel:+919879817994), or email us at manish@amtechtechnocast.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.