

Material: UNS A04431

Standard Specification for Aluminium and Aluminium Alloys - Casting

Group: Non-Ferrous Aluminium Alloy

Sub Group: UNS Aluminium and Aluminium Alloys - Casting

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.		
Aluminium	Al %	Balance		
-	-	-	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			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
B275 443.1	ASTM	USA	Casting
43	AA	USA	Casting
A04430	UNS	USA	Casting
SB-108 AA3.0	ASME	USA	Casting
A413.0	NBR	Brazil	Casting
A413.0	NMX	Mexico	Casting

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