

Material: AS 2024A

Standard Specification For Aluminium Alloy

Group: Non-Ferrous Aluminium Alloys

Sub Group: AS 2024A Aluminium Alloy

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

Grade Belongs to the Industry: Plate and Sheet

Chemical Composition			Heat Treatment	
Silicon	Si %	0.500 max.	As Raw or Temper or Solution Treated or Aging	
Chromium	Cr %	0.100 max.		
Manganese	Mn %	0.300 - 0.900		
Magnesium	Mg %	1.200 - 1.800		
Copper	Cu %	3.800 - 4.900		
Iron	Fe %	0.500 max.		
Zinc	Zn %	0.250 max.		
Titanium	Ti %	0.150 max.		
Other	Ot %	1.000 max.		
Aluminium	Al %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	205 min.
-	-	-	Yield Strength in Mpa	76 min.
-	-	-	Elongation in %	5 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	140 min.
-	-	-	Impact in Joule	4.4 - 13.6 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
2024.0000	SAE	USA	Plate and Sheet
2024	AS	Australia	Plate and Sheet
2024	NBN	Belgium	Bar
AlCuMg2	ONORM	Australia	Plate and Sheet
AL-P2024	ONORM	Australia	Sheet and Strip
EN AW-2024	NBN	Belgium	Bar and Tube
EN AW-Al Cu4Mg1	NBN	Belgium	Bar and Tube

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