



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - NBN EN AW-Al Cu4Mg1

Standard Specification For Aluminium Alloy

Group - Non-Ferrous Aluminium Alloys

Sub Group - NBN EN AW-Al Cu4Mg1 Aluminium Alloy

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

Grade Belongs to the Industry - Bar and Tube

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.		
Ti + Zr	Ti % + Zr%	0.200 max.		
Other	Ot %	1.000 max.		
Aluminium	Al %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	180 - 300
-	-	-	Yield Strength in Mpa	140 min.
-	-	-	Elongation in %	3 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	47 - 138
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
2024.0000	SAE	USA	Plate and Sheet
2024	AS	Australia	Plate and Sheet
2024A	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

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.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.

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