



1 ALUMINIUM ALLOY 2024 / GENERALITA' LEGA 2024

This Datasheet explains the chemical composition and mechanical properties of wrought products made from aluminium alloy.

La presente scheda definisce la composizione chimica della lega e le caratteristiche meccaniche dei semilavorati in lega di alluminio ottenuti da lavorazione plastica.

2 DESIGNATION / DESIGNAZIONE

- Conventional designation: **Al Cu4Mg1**
Designazione convenzionale
- Numerical designation: **2024**
Designazione numerica

3 CHEMICAL COMPOSITION / COMPOSIZIONE CHIMICA - EN 573-3

Chemical composition %	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Remarks	Others	
											Each	Total
2024	0.50 max	0.50 max	3.8 4.9	0.30 0.9	1.2 1.8	0.10 max	-	0.25 max	0.15 max	0.20 Zr + Ti	0.05 max	0.15 max

4 MECHANICAL PROPERTIES (indicative min values) / C. MECCANICHE

Product	Tempers	Dimensions [mm]		Direction Specimen	Rm [N/mm ²]		Rp0.2 [N/mm ²]		A _{50mm} % min	Hardness Typical value HBW
		D	S		min	max	min	max		
Extruded/Estruso EN 755-2	O, H111	D, S ≤ 200		L	-	250	-	150	10	47
	T3, T3510, T3511	D, S ≤ 50		L	450	-	310	-	6	120
		50 < D, S ≤ 100		L	440	-	300	-	-	
		100 < D, S ≤ 200		L	420	-	280	-	-	
	200 < D, S ≤ 250		L	400	-	270	-	-	-	
T8, T8510, T8511	D, S ≤ 150		L	455	-	380	-	4	130	
Drawn/Trafilato EN 754-2	O, H111	D, S ≤ 80		L	-	250	-	150	10	47
	T3	D, S ≤ 10		L	425	-	310	-	8	120
		10 < D, S ≤ 80		L	425	-	290	-	7	
	T351	D, S ≤ 80		L	425	-	310	-	6	120
	T6	D, S ≤ 80		L	425	-	315	-	4	125
	T651	D, S ≤ 80		L	425	-	315	-	3	125
	T8	D, S ≤ 80		L	455	-	400	-	3	130
T851	D, S ≤ 80		L	455	-	400	-	2	130	

For a complete evaluation, please refer to EN 755-2 (Extruded Product) and EN 754-2 (Drawn Product).



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5 PHYSICAL PROPERTIES (indicative values) / CARATTERISTICHE FISICHE

Density	Conducibility % IACS (T3)
2.71 g/cm ³	30