



1 ALUMINIUM ALLOY 5754 / GENERALITA' LEGA 5754

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 Mg3**
Designazione convenzionale
- Numerical designation: **5754**
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
5754	0.40 max	0.40 max	0.10 max	0.50 max	2.6 3.6	0.30 max	-	0.20 max	0.15 max	0.10 – 0.6 Mn + Cr	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	F, H112	D, S ≤ 150		L	180	-	80	-	12	47
		150 < D, S ≤ 250		L	180	-	70	-	-	
	O, H111	D, S ≤ 150		L	180	250	80	-	15	45
Drawn/Trafilato EN 754-2	O, H111	D ≤ 80	S ≤ 60	L	180	250	80	-	14	45
	H14, H24, H34	D ≤ 25	S ≤ 5	L	240	290	180	-	3	75
	H18, H28, H38	D ≤ 10	S ≤ 3	L	280	-	240	-	2	88

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

5 PHYSICAL PROPERTIES (indicative values) / CARATTERISTICHE FISICHE

Density	Conducibility % IACS (O,H14,H18)
2.71 g/cm ³	32.5