



1 ALUMINIUM ALLOY 7049A / GENERALITA' LEGA 7049A

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 Zn8MgCu**
Designazione convenzionale
- Numerical designation: **7049A**
Designazione numerica

3 CHEMICAL COMPOSITION / COMPOSIZIONE CHIMICA – EN 573-3

Chemical composition %	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Remarks	Others	
										Each	Total
7049A	0.40 max	0.50 max	1.2 1.9	0.50 max	2.1 3.1	0.05 0.25	7.2 8.4	-	0.25 Zr+Ti	0.05	0.15

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

Product	Tempers	Dimensions [mm]		Direction Specimen	Rm [N/mm ²] min.	Rp _{0.2} [N/mm ²] min.	A _{50mm} % min.	Hardness Typical value HBW
		D	S					
Extruded/Estruso EN 755-2	T6, T6510, T6511	D, S ≤ 100		L	610	530	4	170
		100 < D, S ≤ 125		L	560	500	-	
		125 < D, S ≤ 150		L	520	430	-	
		150 < D, S ≤ 180		L	450	400	-	
Drawn/Trafilato EN 754-2	T6	D ≤ 80	-	L	590	500	5	170

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 (T6)
2.71 g/cm ³	27-29