



1 ALUMINIUM ALLOY 2007 / GENERALITA' LEGA 2007

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 Cu4PbMgMn**
Designazione convenzionale
- Numerical designation: **2007**
Designazione numerica

3 CHEMICAL COMPOSITION / COMPOSIZIONE CHIMICA - EN 573-3

Chemical composition %	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Bi	Pb	Sn	Others	
													Each	Total
2007	0.8 max	0.8 max	3.3 4.6	0.50 1.0	0.40 1.80	0.10 max	0.20 max	0.8 max	0.20 max	0.20 max	0.80 1.5	0.20 max	0.10	0.30

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

Product	Tempers	Dimensions [mm]		Direction Specimen	Rm min. [N/mm ²]	Rp _{0.2} min. [N/mm ²]	A _{50mm} % min.	Hardness Typical value HBW
		D	S					
Extruded/Estruso EN 755-2	T4, T4510, T4511	D, S ≤ 80		L	370	250	6	95
		80 < D, S ≤ 200		L	340	220	-	
		200 < D, S ≤ 250		L	330	210	-	
Drawn/Trafilato EN 754-2	T3	D, S ≤ 30		L	370	240	5	95
		30 < D, S ≤ 80		L	340	220	-	
	T351	D, S ≤ 80		L	370	240	3	

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 (T4)	Coefficient of thermal expansion (µm/m K)	Thermal conductivity (W/m K)
2.71 g/cm ³	34	23	130