



1 ALUMINIUM ALLOY 2011 / GENERALITA' LEGA 2011 (ROHS compliant, Pb<0.4%)

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 Cu6BiPb**
Designazione convenzionale
- Numerical designation: **2011**
Designazione numerica

3 CHEMICAL COMPOSITION / COMPOSIZIONE CHIMICA - EN 573-3

Chemical composition %	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Bi	Pb	Others	
												Each	Total
2011	0.40 max	0.7 max	5.0 6.0	-	-	-	-	0.30 max	-	0.20 0.6	0.40 max	0.05	0.15

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

Product	Temper	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	≤ 200	≤ 60	L	275	125	12	95
	T6	≤ 75	≤ 60	L	310	230	6	110
		75 < D ≤ 200	-	L	295	195	-	
Drawn/Trafilato EN 754-2	T3	D, S ≤ 40		L	320	270	8	90
		40 < D, S ≤ 50		L	300	250	-	
		50 < D, S ≤ 80		L	280	210	-	
	T8	D, S ≤ 80		L	370	270	6	115

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 (T62)	Coefficient of thermal expansion (µm/m K)	Thermal conductivity (W/m K)
2.71 g/cm ³	23-26		152