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Capitale soc. € 208.000,00 int.vers. – REA Milano N.2043322

1 ALUMINIUM ALLOY 2014A / GENERALITA' LEGA 2014A

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 Cu4SiMg(A)**
  Designazione convenzionale
- Numerical designation: **2014A**
  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
2014A	0.50 0.9	0.50 max	3.9 5.0	0.40 1.2	0.20 0.8	0.10 max	0.10 max	0.25 max	0.15 max	0.20 Zr+Ti	0.05	0.15

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

Product	Tempers	Dimensions [mm]		Direction Specimen	Rm min. [N/mm²]	Rm max. [N/mm²]	$Rp_{0.2}$ min. [N/mm²]	$Rp_{0.2}$ max. [N/mm²]	A_{50mm} % min.	Hardness Typical value HBW
		D	S							
Extruded/Estruso EN 755-2	O, H111	D, S ≤ 200		L	-	250	-	135	10	45
	T4, T4510, T4511	D, S ≤ 25		L	370	-	230	-	11	110
		25 < D, S ≤ 75			410	-	270	-	-	
		75 < D, S ≤ 150			390	-	250	-	-	
		150 < D, S ≤ 200			350	-	230	-	-	
	T6, T6510, T6511	D, S ≤ 25		L	415	-	370	-	5	140
		25 < D, S ≤ 75			460	-	415	-	-	
		75 < D, S ≤ 150			465	-	420	-	-	
		150 < D, S ≤ 200			430	-	350	-	-	
		200 < D, S ≤ 250			420	-	320	-	-	

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Product	Tempers	Dimensions [mm]		Direction Specimen	Rm min. [N/mm²]	Rm max. [N/mm²]	$Rp_{0.2}$ min. [N/mm²]	$Rp_{0.2}$ max. [N/mm²]	A_{50mm} % min.	Hardness Typical value HBW
		D	S							
Drawn/Trafilato EN 754-2	O, H111	D, S ≤ 80		L	-	240	-	125	10	45
	T3	D, S ≤ 80		L	380	-	290	-	6	110
	T351	D, S ≤ 80			380	-	290	-	4	
	T4	D, S ≤ 80			380	-	220	-	10	
	T451	D, S ≤ 80			380	-	220	-	8	
	T6	D, S ≤ 80		L	450	-	380	-	6	140
	T651	D, S ≤ 80			450	-	380	-	4	

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

5 PHISICAL PROPERTIES (indicative values) / *CARATTERISTICHE FISICHE*

Density	**Conducibility** % IACS (T6)	**Coefficient of thermal expansion** (µm/m K)	**Thermal conductivity** (W/m K)
2.8 g/cm³	40	22.8	155