



## 1 ALUMINIUM ALLOY 6061 / GENERALITA' LEGA 6061

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 Mg1SiCu**  
*Designazione convenzionale*
- Numerical designation: **6061**  
*Designazione numerica*

## 3 CHEMICAL COMPOSITION / COMPOSIZIONE CHIMICA - UNI 9006/2

Chemical composition %	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others	
										Each	Total
<b>6061</b>	0.40 0.8	0.7 max	0.15 0.40	0.15 max	0.8 1.2	0.04 0.35	-	0.25 max	0.15 max	0.05 max	0.15 max

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

Product	Tempers	Dimensions [mm]		Direction Specimen	Rm [N/mm <sup>2</sup> ]		Rp <sub>0.2</sub> [N/mm <sup>2</sup> ]		A <sub>50mm</sub> %	Hardness Typical value HB
		D	S		min	max	min	max		
Extruded/Estruso EN 755-2	O, H111	D, S ≤ 200		L	-	150	-	110	14	30
	T4	D, S ≤ 200		L	180	-	110	-	13	65
	T6	D, S ≤ 200		L	260	-	240	-	6	95
Drawn/Trafilato EN 754-2	O, H111	D, S ≤ 80		L	-	150	-	110	14	30
	T4	D, S ≤ 80		L	205	-	110	-	14	65
	T6	D, S ≤ 80		L	290	-	240	-	8	95

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 <sup>3</sup>	54