



## 1 ALUMINIUM ALLOY 6082 / GENERALITA' LEGA 6082

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 Si1MgMn**  
*Designazione convenzionale*
- Numerical designation: **6082**  
*Designazione numerica*

## 3 CHEMICAL COMPOSITION / COMPOSIZIONE CHIMICA – EN 573-3

Chemical composition %	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others	
										Each	Total
<b>6082</b>	0.7 1.3	0.50 max	0.10 max	0.40 1.0	0.6 1.2	0.25 max	-	0.20 max	0.10 max	0.05 max	0.15 max

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

Product	Tempers	Dimensions [mm]		Direction Specimen	Rm [N/mm <sup>2</sup> ]		Rp0.2 [N/mm <sup>2</sup> ]		A <sub>50mm</sub> % min	Hardness Typical value HBW
		D	S		min	max	min	max		
Extruded/Estruso EN 755-2	O, H111	D, S ≤ 200		L	-	160	-	110	12	35
	T4	D, S ≤ 200		L	205	-	110	-	12	70
	T6	D, S ≤ 20		L	295	-	250	-	6	95
		20 < D, S ≤ 150		L	310	-	260	-	-	
		150 < D, S ≤ 200		L	280	-	240	-	-	
200 < D, S ≤ 250		L	270	-	200	-	-	-		
Drawn/Trafilato EN 754-2	O, H111	D, S ≤ 80		L	-	160	-	110	13	35
	T4	D, S ≤ 80		L	205	-	110	-	12	70
	T6	D, S ≤ 80		L	310	-	255	-	9	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>	46-48