



## 1 ALUMINIUM ALLOY 2033/ GENERALITA' LEGA 2033

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

- Numerical designation: **2033**  
*Designazione numerica*

## 3 CHEMICAL COMPOSITION / COMPOSIZIONE CHIMICA – The Aluminum Association

Chemical composition %	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Bi	Others	
											Each	Total
<b>2033</b>	0.10 1.2	0.7 max	2.2 2.7	0.40 1.0	0.20 0.6	0.15 max	0.15 max	0.50 max	0.10 max	0.05 0.8	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> ]	Rp <sub>0.2</sub> [N/mm <sup>2</sup> ]	A <sub>50mm</sub> %	Hardness Typical value HBW
		D	S		min	min	min	
Extruded/Estruso	T4, T4511	D, S ≤ 80		L	370	220	8	90
	T4, T4511	80 < D, S ≤ 160		L	340	220	8	90
	T6, T6511	D, S ≤ 80		L	370	250	8	105
	T6, T6511	80 < D, S ≤ 160		L	340	220	8	105
Drawn/Trafilato	T3, T3511	8 ≤ D, S ≤ 30		L	370	240	7	100
	T3, T3511	30 < D, S ≤ 60		L	340	220	7	100
	T8, T8511	8 ≤ D, S ≤ 60		L	370	270	8	100

## 5 PHYSICAL PROPERTIES (indicative values) / CARATTERISTICHE FISICHE

Density	Conducibility % IACS (Temp. 20°C)
2,78 g/cm <sup>3</sup>	31% – 40%