



1 ALUMINIUM ALLOY 7003 / GENERALITA' LEGA 7003

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 Zn6Mg0,8Zr**
Designazione convenzionale
- Numerical designation: **7003**
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
7003	0.30 max	0.35 max	0.20 max	0.30 max	0.50 1.0	0.20 max	-	5.0 6.5	0.20 max	0.05 – 0.25 Zr	0.05 max	0.15 max

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

Product	Tempers	Dimensions [mm]		Direction Specimen	Rm [N/mm ²]		Rp0.2 [N/mm ²]		A _{50mm} %	Hardness Typical value HBW
		D	S		min	max	min	max		
Extruded/Estruso EN 755-2	O	All		L	-	220	-	130	15	60 max
	T5	All		L	310	-	260	-	8	-
	T6	D, S ≤ 50		L	350	-	290	-	8	110
		50 < D, S ≤ 150		L	340	-	280	-	8	

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

5 PHYSICAL PROPERTIES (indicative values) / CARATTERISTICHE FISICHE

Density	Conducibility % IACS (T6)
2.71 g/cm ³	37