



1 ALUMINIUM ALLOY 7075 / GENERALITA' LEGA 7075

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 Zn5.5MgCu**
Designazione convenzionale
- Numerical designation: **7075**
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
7075	0.40 max	0.50 max	1.2 2.0	0.30 max	2.1 2.9	0.18 0.28	-	5.1 6.1	0.20 max	0.25 Zr+Ti	0.05	0.15

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} % min	Hardness Typical value HBW
		D	S		min	max	min	max		
Extruded/Estruso EN 755-2	O, H111	D, S ≤ 200		L	-	275	-	165	8	60
	T6, T6510, T6511	D, S ≤ 25		L	540	-	480	-	5	150
		25 < D, S ≤ 100			560	-	500	-	-	
		100 < D, S ≤ 150			550	-	440	-	-	
		150 < D, S ≤ 200			440	-	400	-	-	
	T73, T73510, T73511	D, S ≤ 25		L	485	-	420	-	5	135
		25 < D, S ≤ 75			475	-	405	-	-	
		75 < D, S ≤ 100			470	-	390	-	-	
100 < D, S ≤ 150		440	-		360	-	-			
Drawn/Trafilato EN 754-2	O, H111	D, S ≤ 80		L	-	275	-	165	8	60
	T6	D, S ≤ 80		L	540	-	485	-	6	150
	T651	D, S ≤ 80		L	540	-	485	-	4	150
	T73	D, S ≤ 80		L	455	-	385	-	8	135
	T7351	D, S ≤ 80		L	455	-	385	-	6	135

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
2.71 g/cm ³	40