



1 ALUMINIUM ALLOY 5019 / GENERALITA' LEGA 5019

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 Mg5**
Designazione convenzionale
- Numerical designation: **5019**
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
5019	0.40 max	0.50 max	0.10 max	0.10 0.6	4.5 5.6	0.20 max	-	0.20 max	0.20 max	0.10 – 0.6 Mn + Cr	0.05 max	0.15 max

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

Product	Tempers	Dimensions [mm]		Direction Specimen	Rm [N/mm ²]		Rp _{0.2} [N/mm ²]		A _{50mm} %	Hardness Typical value HBW
		D	S		min	max	min	max		
Extruded/Estruso EN 755-2	F, H112	D, S ≤ 200		L	250	-	110	-	12	65
	O, H111	D, S ≤ 200		L	250	320	110	-	13	65
Drawn/Trafilato EN 754-2	O, H111	D ≤ 80	S ≤ 60	L	250	320	110	-	14	65
	H12, H22, H32	D ≤ 40	S ≤ 25	L	270	350	180	-	7	85
	H14, H24, H34	D ≤ 25	S ≤ 10	L	300	-	210	-	3	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
2.71 g/cm ³	28