

I. MECHANICAL PROPERTIES ACCORDING TO EUROPEAN STANDARDS EN 755-2

ALLOY: EN AW-6060 [Al MgSi]

BAR									
Temper		Dimensions mm		Rm MPa		Rp _{0,2} MPa		A %	A _{50 mm} %
		D ¹⁾	S ²⁾	min	max	min	max	min	Min
T4 ⁵⁾	F13	≤ 150	≤ 150	120	-	60	-	16	14
T5	F16	≤ 150	≤ 150	160	-	120	-	8	6
T6 ⁵⁾	F19	≤ 150	≤ 150	190	-	150	-	8	6
T64 ^{5) 8)}	F18	≤ 50	≤ 50	180	-	120	-	12	10
T66 ⁵⁾	F22	≤150	≤150	215	-	160	-	8	6
TUBE									
Temper		Dimensions mm		Rm MPa		Rp _{0,2} MPa		A %	A _{50 mm} %
		e ³⁾		min	max	min	max	min	min
T4 ⁵⁾	F13	≤ 15		120	-	60	-	16	14
T5	F16	≤ 15		160	-	120	-	8	6
T6 ⁵⁾	F19	≤ 15		190	-	150	-	8	6
T64 ^{5) 8)}	F18	≤ 15		180	-	120	-	12	10
T66 ⁵⁾	F22	≤15		215	-	160	-	8	6
PROFILE ¹⁰⁾									
Temper		Dimensions mm		Rm MPa		Rp _{0,2} MPa		A %	A _{50 mm} %
		e ³⁾		min	max	min	max	min	min
T4 ⁵⁾	F13	≤ 25		120	-	60	-	16	14
T5	F16	≤ 5 5 < e ≤ 25		160	-	120	-	8	6
		140		-	-	100	-	8	6
T6 ⁵⁾	F19	≤ 3 3 < e ≤ 25		190	-	150	-	8	6
		170		-	-	140	-	8	6
T64 ^{5) 8)}	F18	≤ 15		180	-	120	-	12	10
T66 ⁵⁾	F22	≤ 3 3 < e ≤ 25		215	-	160	-	8	6
		195		-	-	150	-	8	6

1) D - Diameter of round bar
 2) S – Width on the flatness of square and hexagonal bar, thickness of rectangular bar
 3) e – Thickness of the wall
 5) Those properties can be achieved through temper on the press.
 8) Pliability of bending.
 10) If the vertical section of the profile includes different thicknesses, which are in a group with specific values for the mechanical characteristics, than for the whole vertical section of the profile will be considered valid the lowest indicated values.

II. CHEMICAL COMPOSITION ACCORDING TO EUROPEAN STANDARDS EN 573.3

Alloy designation	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others		Al
									Each	Total	
EN AW-6060 (Al Mg Si)	0,3÷0,6	0,1÷0,3	0,10	0,10	0,35÷0,6	0,05	0,15	0,10	0,05	0,15	rest