

BARS, TUBES, EXTRUDED PROFILES AND NOT SPECIFIED

State	Dimension [mm]		R _m [MPa]		R _{p0,2} [MPa]		A	A _{50mm}	HBW
	D ^a	S ^b	min	max	min	max	% min	% min	
EN AW-1070A [Al99,7] - BARS, TUBES, EXTRUDED PROFILES AND NOT SPECIFIED									
F ^c , H112	do ustalenia	do ustalenia	60	-	23	-	25	23	18
<p>a Diameter for round bar</p> <p>b Width cross section for square and hexagonal bar, thickness for rectangular bar</p> <p>c F temper: properties given just as the information</p>									

EXTRUDED TUBES

State	Wall thickness	R _m [MPa]		R _{p0,2} [MPa]		A	A _{50mm}	HBW
	t [mm]	min	max	min	max	% min	% min	
EN AW-6060 [Al MgSi] - EXTRUDED TUBES								
T4 ^c	≤15	120	-	60	-	16	14	50
T5	≤15	160	-	120	-	8	6	60
T64 ^{cd}	≤15	180	-	120	-	12	10	60
T6 ^c	≤15	190	-	150	-	8	6	70
T66 ^c	≤15	215	-	160	-	8	6	75
EN AW-6063 [Al Mg0,7Si] - EXTRUDED TUBES								
T4 ^c	≤10	130	-	65	-	14	12	50
T4 ^c	10<t≤25	120	-	65	-	12	10	50
T5	≤25	175	-	130	-	8	6	65
T6 ^c	≤25	215	-	170	-	10	8	75
T66 ^c	≤25	245	-	200	-	10	8	80
EN AW-6005A [Al SiMg(A)] - EXTRUDED TUBES								
T6 ^c	≤5	270	-	225	-	8	6	90
T6 ^c	5<t≤10	260	-	215	-	8	6	85
EN AW-6082 [Al Si1MgMn] - EXTRUDED TUBES								
T4 ^c	≤25	205	-	110	-	14	12	70
T6 ^c	≤5	290	-	250	-	8	6	95
T6 ^c	5<t≤25	310	-	260	-	10	8	95
<p>c Mechanical properties may be gained by cooling on the press exit</p> <p>d Material for bending</p>								

Temper symbols (according to EN 515)	
F	extruded and air cooled (without mechanical properties specified)
H112	softly strengthen by shaping in higher temperature (specified mechanical properties limits)
T4	heat treated and naturally aged
T5	cooled from extrusion temperature and atificially aged
T64	heat treated and artificially aged
T6	heat treated and artificially aged
T66	heat treated and artificially aged level of mechanical properties higher than in temper T6
Mechanical properties	
Rm	Tensile strength
Rp_{0,2}	Yield strength
A%	Elongation measured on a gauge length of $5,65 \sqrt{S_0}$ (S_0 - cross section of the sample) and expressed in %
A50	Elongation measured on a gauge length of 50mm and expressed in %