



Aluminum Al

Product format:

Laminate

Technical characteristics:

Aluminum sheet and strip rolled

MECHANICAL CHARACTERISTICS

ALUMINIUM: EN AW-1050A [Al 99,5]

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
F	≥ 2,5	150	60								
O	0,2	0,5	65	95	20		20		0 t	0 t	20
	0,5	1,5	65	95	20		22		0 t	0 t	20
	1,5	3,0	65	95	20		26		0 t	0 t	20
	3,0	6,0	65	95	20		29		0,5 t	0,5 t	20
	6,0	12,5	65	95	20		35		1,0 t	1,0 t	20
	12,5	80	65	95	20			32			20
H111	0,2	0,5	65	95	20		20		0 t	0 t	20
	0,5	1,5	65	95	20		22		0 t	0 t	20
	1,5	3,0	65	95	20		26		0 t	0 t	20
	3,0	6,0	65	95	20		29		0,5 t	0,5 t	20
	6,0	12,5	65	95	20		35		1,0 t	1,0 t	20
	12,5	80	65	95	20			32			20
H112	≥ 6	12,5	75		30		20				23
	12,5	80	70		25			20			22
H12	0,2	0,5	85	125	65		2		0,5 t	0 t	28
	0,5	1,5	85	125	65		4		0,5 t	0 t	28
	1,5	3,0	85	125	65		5		0,5 t	0,5 t	28
	3,0	6,0	85	125	65		7		1,0 t	1,0 t	28
	6,0	12,5	85	125	65		9			2,0 t	28
	12,5	40	85	125	65			9			28
H14	0,2	0,5	105	145	85		2		1,0 t	0 t	34
	0,5	1,5	105	145	85		2		1,0 t	0,5 t	34
	1,5	3,0	105	145	85		4		1,0 t	1,0 t	34
	3,0	6,0	105	145	85		5			1,5 t	34
	6,0	12,5	105	145	85		6			2,5 t	34
	12,5	25	105	145	85			6			34
H16	0,2	0,5	120	160	100		1			0,5 t	39
	0,5	1,5	120	160	100		2			1,0 t	39
	1,5	4,0	120	160	100		3			1,5 t	39

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
H18	0,2	0,5	135		120		1			1,0 t	42
	0,5	1,5	140		120		2			2,0 t	42
	1,5	3,0	140		120		2			3,0 t	42
H19	0,2	0,5	155		140		1				45
	0,5	1,5	150		130		1				45
	1,5	3,0	150		130		1				45
H22	0,2	0,5	85	125	55		4		0,5 t	0 t	27
	0,5	1,5	85	125	55		5		0,5 t	0 t	27
	1,5	3,0	85	125	55		6		0,5 t	0,5 t	27
	3,0	6,0	85	125	55		11		1,0 t	1,0 t	27
	6,0	12,5	85	125	55		12			2,0 t	27
H24	0,2	0,5	105	145	75		3		1,0 t	0 t	33
	0,5	1,5	105	145	75		4		1,0 t	0,5 t	33
	1,5	3,0	105	145	75		5		1,0 t	1,0 t	33
	3,0	6,0	105	145	75		8		1,5 t	1,5 t	33
	6,0	12,5	105	145	75		8			2,5 t	33
H26	0,2	0,5	120	160	90		2			0,5 t	38
	0,5	1,5	120	160	90		3			1,0 t	38
	1,5	4,0	120	160	90		4			1,5 t	38
H28	0,2	0,5	140		110		2			1,0 t	41
	0,5	1,5	140		110		2			2,0 t	41
	1,5	3,0	140		110		3			3,0 t	41

ALLOY : EN AW-2070A [Al CU 4 MG SI (A)]

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
0	≥ 0,4	1,5		225		145	12		0,5 t	0 t	55
	1,5	3,0		225		145	14		1,0 t	1,0 t	55
	3,0	6,0		225		145	13			1,5 t	55
	6,0	9,0		225		145	13			2,5 t	55
	9,0	12,5		225		145	13			4,0 t	55
	12,5	25,0		225		145		12			55
T4	≥ 0,4	1,5	390		245		14		3,0 t ^a	3,0 t ^a	110
	1,5	6,0	390		245		15		5,0 t ^a	5,0 t ^a	110
	6,0	12,5	390		260		13			8,0 t ^a	111
	12,5	40,0	390		250			12			110
	40,0	60,0	385		245			12			108
	60,0	80,0	370		240			7			
	80,0	120,0	360		240			6			105
	120,0	150,0	350		240			4			101
	150,0	180,0	330		220			2			
	180,0	200,0	300		200			2			
T451	≥ 0,4	1,5	390		245		14		3,0 t ^a	3,0 t ^a	110
	1,5	6,0	390		245		15		5,0 t ^a	5,0 t ^a	110
	6,0	12,5	390		260		13			8,0 t ^a	111
	12,5	40,0	390		250			12			110
	40,0	60,0	385		245			12			108
	60,0	80,0	370		240			7			
	80,0	120,0	360		240			6			105
	120,0	150,0	350		240			4			101
	150,0	180,0	330		220			2			
	180,0	200,0	300		200			2			

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
T452	150,0	180,0	330		220			2			
	180,0	200,0	300		200			2			
T42	≥ 0,4	3,0	390		235		14				109
	3,0	12,5	390		235		15				109
	12,5	25,0	390		235			12			109

NOTE - For the new applications of this alloy, which involve certain properties such as corrosion resistance, toughness, fatigue resistance, we strongly recommend the buyer to check With the manufacturer in order to perform a more rigorous selection of material.

^a You can get substantially lower bending radii immediately after quenching.

ALLOY : EN AW-2024 [Al CU4 MG 1]

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
0	≥ 0,4	1,5		220		140	12		0,5 t	0 t	55
	1,5	3,0		220		140	13		2,0 t	1,0 t	55
	3,0	6,0		220		140	13		3,0 t	1,5 t	55
	6,0	9,0		220		140	13			2,5 t	55
	9,0	12,5		220		140	13			4,0 t	55
	12,5	25,0		220				11			55
T4	≥ 0,4	1,5	425		275		12		4,0 t		120
	1,5	6,0	425		275		14		5,0 t		120
T3	≥ 0,4	1,5	435		290		12		4,0 t ^a	4,0 t ^a	123
	1,5	3,0	435		290		14		4,0 t ^a	4,0 t ^a	123
	3,0	6,0	440		290		14		5,0 t ^a	5,0 t ^a	124
	6,0	12,5	440		290		13			8,0 t ^a	124
	12,5	40,0	430		290			11			122
	40,0	80,0	420		290			8			120
	80,0	100,0	400		285			7			115
	100,0	120,0	380		270			5			110
	120,0	150,0	360		250			5			104
T351	≥ 0,4	1,5	435		290		12		4,0 t ^a	4,0 t ^a	123
	1,5	3,0	435		290		14		4,0 t ^a	4,0 t ^a	123
	3,0	6,0	440		290		14		5,0 t ^a	5,0 t ^a	124
	6,0	12,5	440		290		13			8,0 t ^a	124
	12,5	40,0	430		290			11			122
	40,0	80,0	420		290			8			120
	80,0	100,0	400		285			7			115
	100,0	120,0	380		270			5			110
	120,0	150,0	360		250			5			104
T42	≥ 0,4	6,0	425		260		15				119
	6,0	12,5	425		260		12				119
	12,5	25,0	420		260			8			118
T8	≥ 0,4	1,5	460		400		5				138
	1,5	6,0	460		400		6				138
	6,0	12,5	460		400		5				138
	12,5	25,0	455		400			4			137
	25,0	40,0	455		395			4			136

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máy.	mín.	máy.	A _{50 mm}	A	180°	90°	
T851	≥ 0,4	1,5	460		400		5				138
	1,5	6,0	460		400		6				138
	6,0	12,5	460		400		5				138
	12,5	25,0	455		400			4			137
	25,0	40,0	455		395			4			136
T62	≥ 0,4	12,5	440		345		5				129
	12,5	25,0	435		345			4			128

NOTE - For the new applications of this alloy, which involve certain properties such as corrosion resistance, toughness, fatigue resistance, we strongly recommend the buyer to check With the manufacturer in order to perform a more rigorous selection of material.

^a You can get substantially lower bending radii immediately after quenching.

ALLOY : EN AW-3003 [AL MN 1 CU]

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
F	≥ 2,5	80	95								
O	0,2	0,5	95	135	35		15		0 t	0 t	28
	0,5	1,5	95	135	35		17		0 t	0 t	28
	1,5	3,0	95	135	35		20		0 t	0 t	28
	3,0	6,0	95	135	35		23		1,0 t	1,0 t	28
	6,0	12,5	95	135	35		24			1,5 t	28
	12,5	50	95	135	35			23			28
H111	0,2	0,5	95	135	35		15		0 t	0 t	28
	0,5	1,5	95	135	35		17		0 t	0 t	28
	1,5	3,0	95	135	35		20		0 t	0 t	28
	3,0	6,0	95	135	35		23		1,0 t	1,0 t	28
	6,0	12,5	95	135	35		24			1,5 t	28
	12,5	50	95	135	35			23			28
H112	≥ 6	12,5	115		70		10				35
	12,5	80	100		40			18			29
H12	0,2	0,5	120	160	90		3		1,5 t	0 t	38
	0,5	1,5	120	160	90		4		1,5 t	0,5 t	38
	1,5	3,0	120	160	90		5		1,5 t	1,0 t	38
	3,0	6,0	120	160	90		6			1,0 t	38
	6,0	12,5	120	160	90		7			2,0 t	38
	12,5	40	120	160	90			8			38
H14	0,2	0,5	145	185	125		2		2,0 t	0,5 t	46
	0,5	1,5	145	185	125		2		2,0 t	1,0 t	46
	1,5	3,0	145	185	125		3		2,0 t	1,0 t	46
	3,0	6,0	145	185	125		4			2,0 t	46
	6,0	12,5	145	185	125		5			2,5 t	46
	12,5	25	145	185	125			5			46
H16	0,2	0,5	170	210	150		1		2,5 t	1,0 t	54
	0,5	1,5	170	210	150		2		2,5 t	1,5 t	54
	1,5	4,0	170	210	150		2		2,5 t	2,0 t	54
H18	0,2	0,5	190		170		1			1,5 t	60
	0,5	1,5	190		170		2			2,5 t	60
	1,5	3,0	190		170		2			3,0 t	60

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
H19	0,2	0,5	210		180		1				65
	0,5	1,5	210		180		2				65
	1,5	3,0	210		180		2				65
H22	0,2	0,5	120	160	80		6		1,0 t	0 t	37
	0,5	1,5	120	160	80		7		1,0 t	0,5 t	37
	1,5	3,0	120	160	80		8		1,0 t	1,0 t	37
	3,0	6,0	120	160	80		9			1,0 t	37
	6,0	12,5	120	160	80		11			2,0 t	37
H24	0,2	0,5	145	185	115		4		1,5 t	0,5 t	45
	0,5	1,5	145	185	115		4		1,5 t	1,0 t	45
	1,5	3,0	145	185	115		5		1,5 t	1,0 t	45
	3,0	6,0	145	185	115		6			2,0 t	45
	6,0	12,5	145	185	115		8			2,5 t	45
H26	0,2	0,5	170	210	140		2		2,0 t	1,0 t	53
	0,5	1,5	170	210	140		3		2,0 t	1,5 t	53
	1,5	4,0	170	210	140		3		2,0 t	2,0 t	53
H28	0,2	0,5	190		160		2			1,5 t	59
	0,5	1,5	190		160		2			2,5 t	59
	1,5	3,0	190		160		3			3,0 t	59

ALLOY : EN AW-3004 [Al MN 1 MG 1]

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
F	≥ 2,5	80	155								
O	0,2	0,5	155	200	60		13		0 t	0 t	45
	0,5	1,5	155	200	60		14		0 t	0 t	45
	1,5	3,0	155	200	60		15		0,5 t	0 t	45
	3,0	6,0	155	200	60		16		1,0 t	1,0 t	45
	6,0	12,5	155	200	60		16			2,0 t	45
	12,5	50	155	200	60			14			45
H111	0,2	0,5	155	200	60		13		0 t	0 t	45
	0,5	1,5	155	200	60		14		0 t	0 t	45
	1,5	3,0	155	200	60		15		0,5 t	0 t	45
	3,0	6,0	155	200	60		16		1,0 t	1,0 t	45
	6,0	12,5	155	200	60		16			2,0 t	45
	12,5	50	155	200	60			14			45
H112	0,2	0,5	190	240	155		2		1,5 t	0 t	59
	0,5	1,5	190	240	155		3		1,5 t	0,5 t	59
	1,5	3,0	190	240	155		4		2,0 t	1,0 t	59
	3,0	6,0	190	240	155		5			1,5 t	59
H14	0,2	0,5	220	265	180		1		2,5 t	0,5 t	67
	0,5	1,5	220	265	180		2		2,5 t	1,0 t	67
	1,5	3,0	220	265	180		2		2,5 t	1,5 t	67
	3,0	6,0	220	265	180		3			2,0 t	67
H16	0,2	0,5	240	285	200		1		3,5 t	1,0 t	73
	0,5	1,5	240	285	200		1		3,5 t	1,5 t	73
	1,5	4,0	240	285	200		2			2,5 t	73
H18	0,2	0,5	260		230		1			1,5 t	80
	0,5	1,5	260		230		1			2,5 t	80
	1,5	3,0	260		230		2				80

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
H19	0,2	0,5	270		240		1				83
	0,5	1,5	270		240		1				83
H22	0,2	0,5	190	240	145		4		1,0 t	0 t	58
	0,5	1,5	190	240	145		5		1,0 t	0,5 t	58
	1,5	3,0	190	240	145		6		1,5 t	1,0 t	58
	3,0	6,0	190	240	145		7			1,5 t	58
H32	0,2	0,5	190	240	145		4		1,0 t	0 t	58
	0,5	1,5	190	240	145		5		1,0 t	0,5 t	58
	1,5	3,0	190	240	145		6		1,5 t	1,0 t	58
	3,0	6,0	190	240	145		7			1,5 t	58
H24	0,2	0,5	220	265	170		3		2,0 t	0,5 t	66
	0,5	1,5	220	265	170		4		2,0 t	1,0 t	66
	1,5	3,0	220	265	170		4		2,0 t	1,5 t	66
H34	0,2	0,5	220	265	170		3		2,0 t	0,5 t	66
	0,5	1,5	220	265	170		4		2,0 t	1,0 t	66
	1,5	3,0	220	265	170		4		2,0 t	1,5 t	66
H26	0,2	0,5	240	285	190		3		3,0 t	1,0 t	72
	0,5	1,5	240	285	190		3		3,0 t	1,5 t	72
	1,5	3,0	240	285	190		3			2,5 t	72
H36	0,2	0,5	240	285	190		3		3,0 t	1,0 t	72
	0,5	1,5	240	285	190		3		3,0 t	1,5 t	72
	1,5	3,0	240	285	190		3			2,5 t	72
H28	0,2	0,5	260		220		2			1,5 t	79
	0,5	1,5	260		220		3			2,5 t	79
H38	0,2	0,5	260		220		2			1,5 t	79
	0,5	1,5	260		220		3			2,5 t	79

ALLOY : EN AW-5005 [Al MG 1 (B)], EN AW-5005A [Al MG 1 (C)]

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
F	≥ 2,5	80	100								
O	0,2	0,5	100	145	35		15		0 t	0 t	29
	0,5	1,5	100	145	35		19		0 t	0 t	29
	1,5	3,0	100	145	35		20		0,5 t	0 t	29
	3,0	6,0	100	145	35		22		1,0 t	1,0 t	29
	6,0	12,5	100	145	35		24			1,5 t	29
	12,5	50	100	145	35			20			29
H111	0,2	0,5	100	145	35		15		0 t	0 t	29
	0,5	1,5	100	145	35		19		0 t	0 t	29
	1,5	3,0	100	145	35		20		0,5 t	0 t	29
	3,0	6,0	100	145	35		22		1,0 t	1,0 t	29
	6,0	12,5	100	145	35		24			1,5 t	29
	12,5	50	100	145	35			20			29
H112	0,2	0,5	125	165	95		2		1,0 t	0 t	39
	0,5	1,5	125	165	95		2		1,0 t	0,5 t	39
	1,5	3,0	125	165	95		4		1,5 t	1,0 t	39
	3,0	6,0	125	165	95		5			1,0 t	39
	6,0	12,5	125	165	95		7			2,0 t	39
H14	0,2	0,5	145	185	120		2		2,0 t	0,5 t	48
	0,5	1,5	145	185	120		2		2,0 t	1,0 t	48
	1,5	3,0	145	185	120		3		2,5 t	1,0 t	48
	3,0	6,0	145	185	120		4			2,0 t	48
	6,0	12,5	145	185	120		5			2,5 t	48
H16	0,2	0,5	165	205	145		1			1,0 t	52
	0,5	1,5	165	205	145		2			1,5 t	52
	1,5	3,0	165	205	145		3			2,0 t	52
	3,0	4,0	165	205	145		3			2,5 t	52
H18	0,2	0,5	185		165		1			1,5 t	58
	0,5	1,5	185		165		2			2,5 t	58
	1,5	3,0	185		165		2			3,0 t	58
H19	0,2	0,5	205		185		1				64
	0,5	1,5	205		185		2				64
	1,5	3,0	205		185		2				64

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
H22	0,2	0,5	125	165	80		4		1,0 t	0 t	28
	0,5	1,5	125	165	80		5		1,0 t	0,5 t	28
	1,5	3,0	125	165	80		6		1,5 t	1,0 t	28
	3,0	6,0	125	165	80		8			1,0 t	28
	6,0	12,5	125	165	80		10			2,0 t	28
H32	0,2	0,5	125	165	80		4		1,0 t	0 t	28
	0,5	1,5	125	165	80		5		1,0 t	0,5 t	28
	1,5	3,0	125	165	80		6		1,5 t	1,0 t	28
	3,0	6,0	125	165	80		8			1,0 t	28
	6,0	12,5	125	165	80		10			2,0 t	28
H24	0,2	0,5	145	185	110		3		1,5 t	0,5 t	47
	0,5	1,5	145	185	110		4		1,5 t	1,0 t	47
	1,5	3,0	145	185	110		5		2,0 t	1,0 t	47
	3,0	6,0	145	185	110		6			2,0 t	47
	6,0	12,5	145	185	110		8			2,5 t	47
H34	0,2	0,5	145	185	110		3		1,5 t	0,5 t	47
	0,5	1,5	145	185	110		4		1,5 t	1,0 t	47
	1,5	3,0	145	185	110		5		2,0 t	1,0 t	47
	3,0	6,0	145	185	110		6			2,0 t	47
	6,0	12,5	145	185	110		8			2,5 t	47
H26	0,2	0,5	165	205	135		2			1,0 t	52
	0,5	1,5	165	205	135		3			1,5 t	52
	1,5	3,0	165	205	135		4			2,0 t	52
	3,0	4,0	165	205	135		4			2,5 t	52
H36	0,2	0,5	165	205	135		2			1,0 t	52
	0,5	1,5	165	205	135		3			1,5 t	52
	1,5	3,0	165	205	135		4			2,0 t	52
	3,0	4,0	165	205	135		4			2,5 t	52
H28	0,2	0,5	185		160		1			1,5 t	58
	0,5	1,5	185		160		2			2,5 t	58
	1,5	3,0	185		160		3			3,0 t	58
H38	0,2	0,5	185		160		1			1,5 t	58
	0,5	1,5	185		160		2			2,5 t	58
	1,5	3,0	185		160		3			3,0 t	58

ALLOY : EN AW-5083 [Al MG 4,5 MN 0,7]

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
F	≥ 2,5	250	250								
	250	350	245								
O	0,2	0,5	275	350	125		11		1,0 t	0,5 t	75
	0,5	1,5	275	350	125		12		1,0 t	1,0 t	75
	1,5	3,0	275	350	125		13		1,5 t	1,0 t	75
	3,0	6,0	275	350	125		15			1,5 t	75
	6,0	12,5	270	345	115		16			2,5 t	75
	12,5	50,0	270	345	115			15			75
	50,0	80,0	270	345	115			14			73
	80,0	120,0	260		110			12			70
	120,0	200,0	255		105			12			69
	200,0	250,0	250		95			10			69
	250,0	300,0	245		90			9			69
H111	0,2	0,5	275	350	125		11		1,0 t	0,5 t	75
	0,5	1,5	275	350	125		12		1,0 t	1,0 t	75
	1,5	3,0	275	350	125		13		1,5 t	1,0 t	75
	3,0	6,0	275	350	125		15			1,5 t	75
	6,0	12,5	270	345	115		16			2,5 t	75
	12,5	50,0	270	345	115			15			75
	50,0	80,0	270	345	115			14			73
	80,0	120,0	260		110			12			70
	120,0	200,0	255		105			12			69
	200,0	250,0	250		95			10			69
	250,0	300,0	245		90			9			69
H112	≥ 6	12,5	275		125		12				75
	12,5	40,0	275		125			10			75
	40,0	80,0	270		115			10			73
	80,0	120,0	260		110			10			73
H116 ^a	≥ 1,5	3,0	305		215		8		3,0 t	2,0 t	89
	3,0	6,0	305		215		10			2,5 t	89
	6,0	12,5	305		215		12			4,0 t	89
	12,5	40,0	305		215			10			89
	40,0	80,0	285		200			10			83

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
H321 ^a	≥ 1,5	3,0	305		215		8		3,0 t	2,0 t	89
	3,0	6,0	305		215		10			2,5 t	89
	6,0	12,5	305		215		12			4,0 t	89
	12,5	40,0	305		215			10			89
	40,0	80,0	285		200			10			83
H12	0,2	0,5	315	375	250		3				94
	0,5	1,5	315	375	250		4				94
	1,5	3,0	315	375	250		5				94
	3,0	6,0	315	375	250		6				94
	6,0	12,5	315	375	250		7				94
	12,5	40,0	315	375	250			6			94

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
H14	0,2	0,5	340	400	280		2				102
	0,5	1,5	340	400	280		3				102
	1,5	3,0	340	400	280		3				102
	3,0	6,0	340	400	280		3				102
	6,0	12,5	340	400	280		4				102
	12,5	25,0	340	400	280			3			102
H16	0,2	0,5	360	420	300		1				108
	0,5	1,5	360	420	300		2				108
	1,5	3,0	360	420	300		2				108
	3,0	4,0	360	420	300		2				108
H22	0,2	0,5	305	380	215		5		2,0 t	0,5 t	89
	0,5	1,5	305	380	215		6		2,0 t	1,5 t	89
	1,5	3,0	305	380	215		7		3,0 t	2,0 t	89
	3,0	6,0	305	380	215		8			2,5 t	89
	6,0	12,5	305	380	215		10			3,5 t	89
	12,5	40,0	305	380	215			9			89
H32	0,2	0,5	305	380	215		5		2,0 t	0,5 t	89
	0,5	1,5	305	380	215		6		2,0 t	1,5 t	89
	1,5	3,0	305	380	215		7		3,0 t	2,0 t	89
	3,0	6,0	305	380	215		8			2,5 t	89
	6,0	12,5	305	380	215		10			3,5 t	89
	12,5	40,0	305	380	215			9			89
H24	0,2	0,5	340	400	250		4			1,0 t	99
	0,5	1,5	340	400	250		5			2,0 t	99
	1,5	3,0	340	400	250		6			2,5 t	99
	3,0	6,0	340	400	250		7			3,5 t	99
	6,0	12,5	340	400	250		8			4,5 t	99
	12,5	25,0	340	400	250			7			99
H34	0,2	0,5	340	400	250		4			1,0 t	99
	0,5	1,5	340	400	250		5			2,0 t	99
	1,5	3,0	340	400	250		6			2,5 t	99
	3,0	6,0	340	400	250		7			3,5 t	99
	6,0	12,5	340	400	250		8			4,5 t	99
	12,5	25,0	340	400	250			7			99

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
H26	0,2	0,5	360	420	280		2				106
	0,5	1,5	360	420	280		3				106
	1,5	3,0	360	420	280		3				106
	3,0	4,0	360	420	280		3				106
H36	0,2	0,5	360	420	280		2				106
	0,5	1,5	360	420	280		3				106
	1,5	3,0	360	420	280		3				106
	3,0	4,0	360	420	280		3				106
^a The material supplied in these states must be capable of not presenting any signs of corrosion after having been subjected to accelerated testing of susceptibility to exfoliation corrosion line with Norm ASTM G66 and testing for susceptibility to intergranular corrosion in line with Norm ASTM G67.											

ALLOY : EN AW-5086 [Al MG 4]

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
F	≥ 2,5	150	240								
O	0,2	0,5	240	310	100		11		1,0 t	0,5 t	65
	0,5	1,5	240	310	100		12		1,0 t	1,0 t	65
	1,5	3,0	240	310	100		13		1,0 t	1,0 t	65
	3,0	6,0	240	310	100		15		1,5 t	1,5 t	65
	6,0	12,5	240	310	100		17			2,5 t	65
	12,5	150,0	240	310	100			16			65
H111	0,2	0,5	240	310	100		11		1,0 t	0,5 t	65
	0,5	1,5	240	310	100		12		1,0 t	1,0 t	65
	1,5	3,0	240	310	100		13		1,0 t	1,0 t	65
	3,0	6,0	240	310	100		15		1,5 t	1,5 t	65
	6,0	12,5	240	310	100		17			2,5 t	65
	12,5	150,0	240	310	100			16			65
H112	≥ 6	12,5	250		105		8				69
	12,5	40,0	240		105			9			65
	40,0	80,0	240		100			12			65
H116^a	≥ 1,5	3,0	275		195		8		2,0 t	2,0 t	81
	3,0	6,0	275		195		9			2,5 t	81
	6,0	12,5	275		195		10			3,5 t	81
	12,5	50,0	275		195			9			81
H321^a	≥ 1,5	3,0	275		195		8		2,0 t	2,0 t	81
	3,0	6,0	275		195		9			2,5 t	81
	6,0	12,5	275		195		10			3,5 t	81
	12,5	50,0	275		195			9			81
H12	0,2	0,5	275	335	200		3				81
	0,5	1,5	275	335	200		4				81
	1,5	3,0	275	335	200		5				81
	3,0	6,0	275	335	200		6				81
	6,0	12,5	275	335	200		7				81
	12,5	40,0	275	335	200			6			81

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
H14	0,2	0,5	300	360	240		2				90
	0,5	1,5	300	360	240		3				90
	1,5	3,0	300	360	240		3				90
	3,0	6,0	300	360	240		3				90
	6,0	12,5	300	360	240		4				90
	12,5	25,0	300	360	240			3			90
H16	0,2	0,5	325	385	270		1				90
	0,5	1,5	325	385	270		2				98
	1,5	3,0	325	385	270		2				98
	3,0	4,0	325	385	270		2				98
H18	0,2	0,5	345		290		1				104
	0,5	1,5	345		290		1				104
	1,5	3,0	345		290		1				104
H22	0,2	0,5	275	335	185		5		2,0 t	0,5 t	80
	0,5	1,5	275	335	185		6		2,0 t	1,5 t	80
	1,5	3,0	275	335	185		7		2,0 t	2,0 t	80
	3,0	6,0	275	335	185		8			2,5 t	80
	6,0	12,5	275	335	185		10			3,5 t	80
	12,5	40,0	275	335	185			9			80
H32	0,2	0,5	275	335	185		5		2,0 t	0,5 t	80
	0,5	1,5	275	335	185		6		2,0 t	1,5 t	80
	1,5	3,0	275	335	185		7		2,0 t	2,0 t	80
	3,0	6,0	275	335	185		8			2,5 t	80
	6,0	12,5	275	335	185		10			3,5 t	80
	12,5	40,0	275	335	185			9			80
H24	0,2	0,5	300	360	220		4		2,5 t	1,0 t	88
	0,5	1,5	300	360	220		5		2,5 t	2,0 t	88
	1,5	3,0	300	360	220		6		2,5 t	2,5 t	88
	3,0	6,0	300	360	220		7			3,5 t	88
	6,0	12,5	300	360	220		8			4,5 t	88
	12,5	25,0	300	360	220			7			88
H34	0,2	0,5	300	360	220		4		2,5 t	1,0 t	88
	0,5	1,5	300	360	220		5		2,5 t	2,0 t	88
	1,5	3,0	300	360	220		6		2,5 t	2,5 t	88
	3,0	6,0	300	360	220		7			3,5 t	88
	6,0	12,5	300	360	220		8			4,5 t	88
	12,5	25,0	300	360	220			7			88

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
H26	0,2	0,5	325	385	250		2				96
	0,5	1,5	325	385	250		3				96
	1,5	3,0	325	385	250		3				96
	3,0	4,0	325	385	250		3				96
H36	0,2	0,5	325	385	250		2				96
	0,5	1,5	325	385	250		3				96
	1,5	3,0	325	385	250		3				96
	3,0	4,0	325	385	250		3				96
^a The material supplied in these states must be capable of not presenting any signs of corrosion after having been subjected to accelerated testing of susceptibility to exfoliation corrosion line with Norm ASTM G66 and testing for susceptibility to intergranular corrosion in line with Norm ASTM G67.											

ALLOY : EN AW-5251 [Al MG 2 MN 0,3]

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
F	≥ 2,5	80	160								
O	0,2	0,5	160	200	60		13		0 t	0 t	44
	0,5	1,5	160	200	60		14		0 t	0 t	44
	1,5	3,0	160	200	60		16		0,5 t	0,5 t	44
	3,0	6,0	160	200	60		18			1,0 t	44
	6,0	12,5	160	200	60		18			2,0 t	44
	12,5	50,0	160	200	60			18			44
H111	0,2	0,5	160	200	60		13		0 t	0 t	44
	0,5	1,5	160	200	60		14		0 t	0 t	44
	1,5	3,0	160	200	60		16		0,5 t	0,5 t	44
	3,0	6,0	160	200	60		18			1,0 t	44
	6,0	12,5	160	200	60		18			2,0 t	44
	12,5	50,0	160	200	60			18			44
H12	0,2	0,5	190	230	150		3		2,0 t	0 t	58
	0,5	1,5	190	230	150		4		2,0 t	1,0 t	58
	1,5	3,0	190	230	150		5		2,0 t	1,0 t	58
	3,0	6,0	190	230	150		8			1,5 t	58
	6,0	12,5	190	230	150		10			2,5 t	58
	12,5	25,0	190	230	150			10			58
H14	0,2	0,5	210	250	170		2		2,5 t	0,5 t	64
	0,5	1,5	210	250	170		2		2,5 t	1,5 t	64
	1,5	3,0	210	250	170		3		2,5 t	1,5 t	64
	3,0	6,0	210	250	170		4			2,5 t	64
	6,0	12,5	210	250	170		5			3,0 t	64
H16	0,2	0,5	230	270	200		1		3,5 t	1,0 t	71
	0,5	1,5	230	270	200		2		3,5 t	1,5 t	71
	1,5	3,0	230	270	200		3		3,5 t	2,0 t	71
	3,0	4,0	230	270	200		3			3,0 t	71
H18	0,2	0,5	255		230		1				79
	0,5	1,5	255		230		2				79
	1,5	3,0	255		230		2				79

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
H22	0,2	0,5	190	230	120		4		1,5 t	0 t	56
	0,5	1,5	190	230	120		6		1,5 t	1,0 t	56
	1,5	3,0	190	230	120		8		1,5 t	1,0 t	56
	3,0	6,0	190	230	120		10			1,5 t	56
	6,0	12,5	190	230	120		12			2,5 t	56
	12,5	25,0	190	230	120			12			56
H32	0,2	0,5	190	230	120		4		1,5 t	0 t	56
	0,5	1,5	190	230	120		6		1,5 t	1,0 t	56
	1,5	3,0	190	230	120		8		1,5 t	1,0 t	56
	3,0	6,0	190	230	120		10			1,5 t	56
	6,0	12,5	190	230	120		12			2,5 t	56
	12,5	25,0	190	230	120			12			56
H24	0,2	0,5	210	250	140		3		2,0 t	0,5 t	62
	0,5	1,5	210	250	140		5		2,0 t	1,5 t	62
	1,5	3,0	210	250	140		6		2,0 t	1,5 t	62
	3,0	6,0	210	250	140		8			2,5 t	62
	6,0	12,5	210	250	140		10			3,0 t	62
H34	0,2	0,5	210	250	140		3		2,0 t	0,5 t	62
	0,5	1,5	210	250	140		5		2,0 t	1,5 t	62
	1,5	3,0	210	250	140		6		2,0 t	1,5 t	62
	3,0	6,0	210	250	140		8			2,5 t	62
	6,0	12,5	210	250	140		10			3,0 t	62
H26	0,2	0,5	230	270	170		3		3,0 t	1,0 t	69
	0,5	1,5	230	270	170		4		3,0 t	1,5 t	69
	1,5	3,0	230	270	170		5		3,0 t	2,0 t	69
	3,0	4,0	230	270	170		7			3,0 t	69
H36	0,2	0,5	230	270	170		3		3,0 t	1,0 t	69
	0,5	1,5	230	270	170		4		3,0 t	1,5 t	69
	1,5	3,0	230	270	170		5		3,0 t	2,0 t	69
	3,0	4,0	230	270	170		7			3,0 t	69
H28	0,2	0,5	255		200		2				77
	0,5	1,5	255		200		3				77
	1,5	3,0	255		200		3				77
H38	0,2	0,5	255		200		2				77
	0,5	1,5	255		200		3				77
	1,5	3,0	255		200		3				77

ALLOY : EN AW-5754 [Al MG3]

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
F	≥ 2,5	100	190								
	100	150	180								
O	0,2	0,5	190	240	80		12		0,5 t	0 t	52
	0,5	1,5	190	240	80		14		0,5 t	0,5 t	52
	1,5	3,0	190	240	80		16		1,0 t	1,0 t	52
	3,0	6,0	190	240	80		18		1,0 t	1,0 t	52
	6,0	12,5	190	240	80		18			2,0 t	52
	12,5	100,0	190	240	80			17			52
H111	0,2	0,5	190	240	80		12		0,5 t	0 t	52
	0,5	1,5	190	240	80		14		0,5 t	0,5 t	52
	1,5	3,0	190	240	80		16		1,0 t	1,0 t	52
	3,0	6,0	190	240	80		18		1,0 t	1,0 t	52
	6,0	12,5	190	240	80		18			2,0 t	52
	12,5	100,0	190	240	80			17			52
H112	≥ 6	12,5	190		100		12				62
	12,5	25,0	190		90			10			58
	25,0	40,0	190		80			12			52
	40,0	80,0	190		80			14			52
H12	0,2	0,5	220	270	170		4				66
	0,5	1,5	220	270	170		5				66
	1,5	3,0	220	270	170		6				66
	3,0	6,0	220	270	170		7				66
	6,0	12,5	220	270	170		9				66
	12,5	40,0	220	270	170			9			66
H14	0,2	0,5	240	280	190		3				72
	0,5	1,5	240	280	190		3				72
	1,5	3,0	240	280	190		4				72
	3,0	6,0	240	280	190		4				72
	6,0	12,5	240	280	190		5				72
	12,5	25,0	240	280	190			5			72
H16	0,2	0,5	265	305	220		2				80
	0,5	1,5	265	305	220		3				80
	1,5	3,0	265	305	220		3				80
	3,0	6,0	265	305	220		3				80

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
H18	0,2	0,5	290		250		1				88
	0,5	1,5	290		250		2				88
	1,5	3,0	290		250		2				88
H22	0,2	0,5	220	270	130		7		1,5 t	0,5 t	63
	0,5	1,5	220	270	130		8		1,5 t	1,0 t	63
	1,5	3,0	220	270	130		10		2,0 t	1,5 t	63
	3,0	6,0	220	270	130		11			1,5 t	63
	6,0	12,5	220	270	130		10			2,5 t	63
	12,5	40,0	220	270	130			9			63
H32	0,2	0,5	220	270	130		7		1,5 t	0,5 t	63
	0,5	1,5	220	270	130		8		1,5 t	1,0 t	63
	1,5	3,0	220	270	130		10		2,0 t	1,5 t	63
	3,0	6,0	220	270	130		11			1,5 t	63
	6,0	12,5	220	270	130		10			2,5 t	63
	12,5	40,0	220	270	130			9			63
H24	0,2	0,5	240	280	160		6		2,5 t	1,0 t	70
	0,5	1,5	240	280	160		6		2,5 t	1,5 t	70
	1,5	3,0	240	280	160		7		2,5 t	2,0 t	70
	3,0	6,0	240	280	160		8			2,5 t	70
	6,0	12,5	240	280	160		10			3,0 t	70
	12,5	25,0	240	280	160			8			70
H34	0,2	0,5	240	280	160		6		2,5 t	1,0 t	70
	0,5	1,5	240	280	160		6		2,5 t	1,5 t	70
	1,5	3,0	240	280	160		7		2,5 t	2,0 t	70
	3,0	6,0	240	280	160		8			2,5 t	70
	6,0	12,5	240	280	160		10			3,0 t	70
	12,5	25,0	240	280	160			8			70
H26	0,2	0,5	265	305	190		4			1,5 t	78
	0,5	1,5	265	305	190		4			2,0 t	78
	1,5	3,0	265	305	190		5			3,0 t	78
	3,0	6,0	265	305	190		6			3,5 t	78
H36	0,2	0,5	265	305	190		4			1,5 t	78
	0,5	1,5	265	305	190		4			2,0 t	78
	1,5	3,0	265	305	190		5			3,0 t	78
	3,0	6,0	265	305	190		6			3,5 t	78
H28	0,2	0,5	290		230		3				87
	0,5	1,5	290		230		3				87
	1,5	3,0	290		230		4				87

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
H38	0,2	0,5	290		230		3				87
	0,5	1,5	290		230		3				87
	1,5	3,0	290		230		4				87

ALLOY : EN AW-6061 [Al Mg 1 Si Cu]

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
O	≥ 0,4	1,5		150		85	14		1,0 t	0,5 t	40
	1,5	3,0		150		85	16		1,0 t	1,0 t	40
	3,0	6,0		150		85	19			1,0 t	40
	6,0	12,5		150		85	16			2,0 t	40
	12,5	25,0		150				16			40
T4	≥ 0,4	1,5	205		110		12		1,5 t ^a	1,0 t ^a	58
	1,5	3,0	205		110		14		2,0 t ^a	1,5 t ^a	58
	3,0	6,0	205		110		16			3,0 t ^a	58
	6,0	12,5	205		110		18			4,0 t ^a	58
	12,5	40,0	205		110			15			58
	40,0	80,0	205		110			14			58
T451	≥ 0,4	1,5	205		110		12		1,5 t ^a	1,0 t ^a	58
	1,5	3,0	205		110		14		2,0 t ^a	1,5 t ^a	58
	3,0	6,0	205		110		16			3,0 t ^a	58
	6,0	12,5	205		110		18			4,0 t ^a	58
	12,5	40,0	205		110			15			58
	40,0	80,0	205		110			14			58
T42	≥ 0,4	1,5	205		95		12			1,0 t ^a	57
	1,5	3,0	205		95		14			1,5 t ^a	57
	3,0	6,0	205		95		16			3,0 t ^a	57
	6,0	12,5	205		95		18			4,0 t ^a	57
	12,5	40,0	205		95			15			57
	40,0	80,0	205		95			14			57
T6	≥ 0,4	1,5	290		240		6			2,5 t ^a	88
	1,5	3,0	290		240		7			3,5 t ^a	88
	3,0	6,0	290		240		10			4,0 t ^a	88
	6,0	12,5	290		240		9			5,0 t ^a	88
	12,5	40,0	290		240			8			88
	40,0	80,0	290		240			6			88
	80,0	100,0	290		240			5			88
	100,0	150,0	275		240			5			84
	150,0	250,0	265		230			4			81
	250,0	350,0	260		220			4			80
	350,0	400,0	260		220			2			80

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
T651	≥ 0,4	1,5	290		240		6			2,5 t ^a	88
	1,5	3,0	290		240		7			3,5 t ^a	88
	3,0	6,0	290		240		10			4,0 t ^a	88
	6,0	12,5	290		240		9			5,0 t ^a	88
	12,5	40,0	290		240			8			88
	40,0	80,0	290		240			6			88
	80,0	100,0	290		240			5			88
	100,0	150,0	275		240			5			84
	150,0	250,0	265		230			4			81
	250,0	350,0	260		220			4			80
	350,0	400,0	260		220			2			80
T62	≥ 0,4	1,5	290		240		6			2,5 t ^a	88
	1,5	3,0	290		240		7			3,5 t ^a	88
	3,0	6,0	290		240		10			4,0 t ^a	88
	6,0	12,5	290		240		9			5,0 t ^a	88
	12,5	40,0	290		240			8			88
	40,0	80,0	290		240			6			88
	80,0	100,0	290		240			5			88
	100,0	150,0	275		240			5			84
	150,0	250,0	265		230			4			81
	250,0	350,0	260		220			4			80
	350,0	400,0	260		220			2			80

^a You can get substantially lower bending radii inmediately after quenching.

ALLOY : EN AW-6082 [Al Si 1 MG MN]

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
O	≥ 0,4	1,5		150		85	14		1,0 t	0,5 t	40
	1,5	3,0		150		85	16		1,0 t	1,0 t	40
	3,0	6,0		150		85	18			1,5 t ^a	40
	6,0	12,5		150		85	17			2,5 t ^a	40
	12,5	25,0		155				16			40
T4	≥ 0,4	1,5	205		110		12		3,0 t ^a	1,5 t ^a	58
	1,5	3,0	205		110		14		3,0 t ^a	2,0 t ^a	58
	3,0	6,0	205		110		15			3,0 t ^a	58
	6,0	12,5	205		110		14			4,0 t ^a	58
	12,5	40,0	205		110			13			58
	40,0	80,0	205		110			12			58
T451	≥ 0,4	1,5	205		110		12		3,0 t ^a	1,5 t ^a	58
	1,5	3,0	205		110		14		3,0 t ^a	2,0 t ^a	58
	3,0	6,0	205		110		15			3,0 t ^a	58
	6,0	12,5	205		110		14			4,0 t ^a	58
	12,5	40,0	205		110			13			58
	40,0	80,0	205		110			12			58
T42	≥ 0,4	1,5	205		95		12			1,5 t ^a	57
	1,5	3,0	205		95		14			2,0 t ^a	57
	3,0	6,0	205		95		15			3,0 t ^a	57
	6,0	12,5	205		95		14			4,0 t ^a	57
	12,5	40,0	205		95			13			57
	40,0	80,0	205		95			12			57
T6	≥ 0,4	1,5	310		260		6			2,5 t ^a	94
	1,5	3,0	310		260		7			3,5 t ^a	94
	3,0	6,0	310		260		10			4,5 t ^a	94
	6,0	12,5	300		255		9			6,0 t ^a	91
	12,5	60,0	295		240			8			89
	60,0	100,0	295		240			7			89
	100,0	150,0	275		240			6			84
	150,0	175,0	275		230			4			83
	175,0	350,0	260		220			2			

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
T651	≥ 0,4	1,5	310		260		6			2,5 t ^a	94
	1,5	3,0	310		260		7			3,5 t ^a	94
	3,0	6,0	310		260		10			4,5 t ^a	94
	6,0	12,5	300		255		9			6,0t ^a	91
	12,5	60,0	295		240			8			89
	60,0	100,0	295		240			7			89
	100,0	150,0	275		240			6			84
	150,0	175,0	275		230			4			83
	175,0	350,0	260		220			2			
T62	≥ 0,4	1,5	310		260		6			2,5 t ^a	94
	1,5	3,0	310		260		7			3,5 t ^a	94
	3,0	6,0	310		260		10			4,5 t ^a	94
	6,0	12,5	300		255		9			6,0t ^a	91
	12,5	60,0	295		240			8			89
	60,0	100,0	295		240			7			89
	100,0	150,0	275		240			6			84
	150,0	175,0	275		230			4			83
	175,0	350,0	260		220			2			
T61	≥ 0,4	1,5	280		205		10			2,0 t ^a	82
	1,5	3,0	280		205		11			2,5 t ^a	82
	3,0	6,0	280		205		11			4,0 t ^a	82
	6,0	12,5	280		205		12			5,0 t ^a	82
	12,5	60,0	275		200			12			81
	60,0	100,0	275		200			10			81
	100,0	150,0	275		200			9			81
	150,0	175,0	275		200			8			81
T6151	≥ 0,4	1,5	280		205		10			2,0 t ^a	82
	1,5	3,0	280		205		11			2,5 t ^a	82
	3,0	6,0	280		205		11			4,0 t ^a	82
	6,0	12,5	280		205		12			5,0 t ^a	82
	12,5	60,0	275		200			12			81
	60,0	100,0	275		200			10			81
	100,0	150,0	275		200			9			81
	150,0	175,0	275		200			8			81

^a You can get substantially lower bending radii inmediately after quenching.

ALLOY : EN AW-7075 [AL AZ 5,5 MG CU]

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
O	≥ 0,4	0,8		275		145	10		1,0 t	0,5 t	55
	0,8	1,5		275		145	10		2,0 t	1,0 t	55
	1,5	3,0		275		145	10		3,0 t	1,0 t	55
	3,0	6,0		275		145	10			2,5 t	55
	6,0	12,5		275		145	10			4,0 t	55
	12,5	75,0		275				9			55
T6	≥ 0,4	0,8	525		460		6			4,5 t ^a	157
	0,8	1,5	540		460		6			5,5 t ^a	160
	1,5	3,0	540		470		7			6,5 t ^a	161
	3,0	6,0	545		475		8			8,0 t ^a	163
	6,0	12,5	540		460		8			12,0 t ^a	160
	12,5	25,0	540		470			6			161
	25,0	50,0	530		460			5			158
	50,0	60,0	525		440			4			155
	60,0	80,0	495		420			4			147
	80,0	90,0	490		390			4			144
	90,0	100,0	460		360			3			135
	100,0	120,0	410		300			2			119
	120,0	150,0	360		260			2			104
	150,0	200,0	360		240			2			
	200,0	300,0	360		220			1			

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
T651	≥ 0,4	0,8	525		460		6			4,5 t ^a	157
	0,8	1,5	540		460		6			5,5 t ^a	160
	1,5	3,0	540		470		7			6,5 t ^a	161
	3,0	6,0	545		475		8			8,0 t ^a	163
	6,0	12,5	540		460		8			12,0 t ^a	160
	12,5	25,0	540		470			6			161
	25,0	50,0	530		460			5			158
	50,0	60,0	525		440			4			155
	60,0	80,0	495		420			4			147
	80,0	90,0	490		390			4			144
	90,0	100,0	460		360			3			135
	100,0	120,0	410		300			2			119
	120,0	150,0	360		260			2			104
	150,0	200,0	360		240			2			
	200,0	300,0	360		220			1			
T62	≥ 0,4	0,8	525		460		6			4,5 t ^a	157
	0,8	1,5	540		460		6			5,5 t ^a	160
	1,5	3,0	540		470		7			6,5 t ^a	161
	3,0	6,0	545		475		8			8,0 t ^a	163
	6,0	12,5	540		460		8			12,0 t ^a	160
	12,5	25,0	540		470			6			161
	25,0	50,0	530		460			5			158
	50,0	60,0	525		440			4			155
	60,0	80,0	495		420			4			147
	80,0	90,0	490		390			4			144
	90,0	100,0	460		360			3			135
	100,0	120,0	410		300			2			119
	120,0	150,0	360		260			2			104
	150,0	200,0	360		240			2			
	200,0	300,0	360		220			1			
T652	150,0	200,0	360		240			2			
	200,0	300,0	360		220			1			

Treatment status	Nominal thickness		Tensile strength		Yield		Elongation		Bending radius		Hardness
	mm		R _m MPa		R _{p0.2} MPa		mín. %				HBW
	from	to	mín.	máx.	mín.	máx.	A _{50 mm}	A	180°	90°	
T76	≥ 1,5	3,0	500		425		7				149
	3,0	6,0	500		425		8				149
	6,0	12,5	490		415		7				146
T7651	≥ 1,5	3,0	500		425		7				149
	3,0	6,0	500		425		8				149
	6,0	12,5	490		415		7				146
T73	≥ 1,5	3,0	460		385		7				137
	3,0	6,0	460		385		8				137
	6,0	12,5	475		390		7				140
	12,5	25,0	475		390			6			140
	25,0	50,0	475		390			5			140
	50,0	60,0	455		360			5			133
	60,0	80,0	440		340			5			129
	80,0	100,0	430		340			5			126
T7351	≥ 1,5	3,0	460		385		7				137
	3,0	6,0	460		385		8				137
	6,0	12,5	475		390		7				140
	12,5	25,0	475		390			6			140
	25,0	50,0	475		390			5			140
	50,0	60,0	455		360			5			133
	60,0	80,0	440		340			5			129
	80,0	100,0	430		340			5			126

NOTE - For the new applications of this alloy, which involve certain properties such as corrosion resistance, toughness, fatigue resistance, we strongly recommend the buyer to check With the manufacturer in order to perform a more rigorous selection of material.

^a You can get substantially lower bending radii immediately after quenching.

ALLOY : EN AW-5005A [Al MG 1 (C)]

Extruded bar								
Treatment status	Measures mm		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
F ⁴ , H112	todas	todas	100	-	40	-	18	16
O, H111	todas	todas	100	150	40	-	20	18
Tubo extruido								
Treatment status	Measures mm e ³		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
F ⁴ , H112	todas		100	-	40	-	18	16
O, H111	todas		100	150	40	-	20	18
Perfil extruido								
Treatment status	Measures mm e ³		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
F ⁴ , H112	todas		100	-	40	-	18	16

¹ D = Diameter of circular section bars.

² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section.

³ e = Wall thickness.

⁴ Treatment status “F”: The values of the characteristics are given for information only.

ALLOY : EN AW-5015A [Al MG 2 (B)]

Extruded bar								
Treatment status	Measures mm		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
F ⁴ , H112	todas	todas	150	-	50	-	16	14
O, H111	todas	todas	150	200	50	-	18	16
Tubo extruido								
Treatment status	Measures mm e ³		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
F ⁴ , H112	todas		150	-	60	-	16	14
O, H111	todas		150	200	60	-	18	16
Perfil extruido								
Treatment status	Measures mm e ³		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
F ⁴ , H112	todas		150	-	60	-	16	14

¹ D = Diameter of circular section bars.
² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section.
³ e = Wall thickness.
⁴ Treatment status “F”: The values of the characteristics are given for information only.

ALLOY : EN AW-5251 [Al MG 2]

Extruded bar								
Treatment status	Measures mm		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
F ⁴ , H112	todas	todas	160	-	60	-	16	14
O, H111	todas	todas	160	220	60	-	17	15
Tubo extruido								
Treatment status	Measures mm e ³		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
F ⁴ , H112	todas		160	-	60	-	16	14
O, H111	todas		160	220	60	-	17	15
Perfil extruido								
Treatment status	Measures mm e ³		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
F ⁴ , H112	todas		160	-	60	-	16	14

¹ D = Diameter of circular section bars.

² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section.

³ e = Wall thickness.

⁴ Treatment status “F”: The values of the characteristics are given for information only.

ALLOY : EN AW-5052 [Al MG 2,5]

Extruded bar								
Treatment status	Measures mm		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
F ⁴ , H112	todas	todas	170	-	70	-	15	13
O, H111	todas	todas	170	230	70	-	17	15
Tubo extruido								
Treatment status	Measures mm e ³		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
F ⁴ , H112	todas		170	-	70	-	15	13
O, H111	todas		170	230	70	-	17	15
Perfil extruido								
Treatment status	Measures mm e ³		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
F ⁴ , H112	todas		170	-	70	-	15	13

¹ D = Diameter of circular section bars.
² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section.
³ e = Wall thickness.
⁴ Treatment status “F”: The values of the characteristics are given for information only.

ALLOY : EN AW-5154 A [Al MG 3,5 (A)]

Extruded bar								
Treatment status	Measures mm		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
F ⁴ , H112	≤ 200	≤ 200	200	-	85	-	16	14
O, H111	≤ 200	≤ 200	200	275	85	-	18	16
Tubo extruido								
Treatment status	Measures mm e ³		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
F ⁴ , H112	≤ 25		200	-	85	-	16	14
O, H111	≤ 25		200	275	85	-	18	16
Perfil extruido								
Treatment status	Measures mm e ³		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
F ⁴ , H112	≤ 25		200	-	85	-	16	14

¹ D = Diameter of circular section bars.

² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section.

³ e = Wall thickness.

⁴ Treatment status “F”: The values of the characteristics are given for information only.

ALLOY : EN AW-5454 [Al MG 3 MN]

Extruded bar								
Treatment status	Measures mm		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
F ⁴ , H112	≤ 200	≤ 200	200	-	85	-	16	14
O, H111	≤ 200	≤ 200	200	275	85	-	18	16
Tubo extruido								
Treatment status	Measures mm e ³		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
F ⁴ , H112	≤ 25		200	-	85	-	16	14
O, H111	≤ 25		200	275	85	-	18	16
Perfil extruido								
Treatment status	Measures mm e ³		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
F ⁴ , H112	≤ 25		200	-	85	-	16	14

¹ D = Diameter of circular section bars.

² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section.

³ e = Wall thickness.

⁴ Treatment status “F”: The values of the characteristics are given for information only.

¹ D = Diameter of circular section bars.

² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section.

³ e = Wall thickness.

⁴ Treatment status "F": The values of the characteristics are given for information only.

ALLOY : EN AW-5754 [Al MG 3]

Extruded bar								
Treatment status	Measures mm		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
F ⁴ , H112	≤ 150	≤ 150	180	-	80	-	14	12
	150 < D ≤ 250	150 < D ≤ 250	180	-	70	-	13	-
O, H111	≤ 150	≤ 150	180	250	80	-	17	15
Tubo extruido								
Treatment status	Measures mm e ³		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
F ⁴ , H112	≤ 25		180	-	80	-	14	12
O, H111	≤ 25		180	250	80	-	17	15
Perfil extruido								
Treatment status	Measures mm e ³		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
F ⁴ , H112	≤ 25		180	-	80	-	14	12

¹ D = Diameter of circular section bars.

² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section.

³ e = Wall thickness.

⁴ Treatment status “F”: The values of the characteristics are given for information only.

ALLOY : EN AW-5019 [Al MG 5]

Extruded bar								
Treatment status	Measures mm		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
F ⁴ , H112	≤ 200	≤ 200	250	-	110	-	14	12
O, H111	≤ 200	≤ 200	250	320	110	-	15	13
Tubo extruido								
Treatment status	Measures mm e ³		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
F ⁴ , H112	≤ 30		250	-	110	-	14	12
O, H111	≤ 30		250	320	110	-	15	13
Perfil extruido								
Treatment status	Measures mm e ³		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
F ⁴ , H112	≤ 30		250	-	110	-	14	12

¹ D = Diameter of circular section bars.

² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section.

³ e = Wall thickness.

⁴ Treatment status “F”: The values of the characteristics are given for information only.

ALLOY : EN AW-5083 [Al MG 4,5 MN 0,7]

Extruded bar								
Treatment status	Measures mm		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
F ⁴	< 200	200	270	-	110	-	12	10
	200 < D < 250	200 < S < 250	260	-	100	-	12	-
O, H111	≤ 200	≤ 200	270	-	110	-	12	10
H112	≤ 200	≤ 200	270	-	125	-	12	10
Tubo extruido								
Treatment status	Measures mm e ³		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
F ⁴	todas		270	-	110	-	12	10
O, H111	todas		270	-	110	-	12	10
H112	todas		270	-	125	-	12	10
Perfil extruido								
Treatment status	Measures mm e ³		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
F ⁴	todas		270	-	110	-	12	10
H112	todas		270	-	125	-	12	10
¹ D = Diameter of circular section bars. ² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section. ³ e = Wall thickness. ⁴ Treatment status “F”: The values of the characteristics are given for information only.								

ALLOY : EN AW-5086 [Al MG 4]

Extruded bar								
Treatment status	Measures mm		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
F ⁴ , H112	≤ 250	≤ 250	240	-	95	-	12	10
O, H111	≤ 250	≤ 250	240	320	95	-	18	15
Tubo extruido								
Treatment status	Measures mm e ³		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
F ⁴ , H112	todas		240	-	95	-	12	10
O, H111	todas		240	320	95	-	18	15
Perfil extruido								
Treatment status	Measures mm e ³		R _m MPa		R _{p0.2} MPa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
F ⁴ , H112	todas		240	-	95	-	12	10

¹ D = Diameter of circular section bars.

² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section.

³ e = Wall thickness.

⁴ Treatment status “F”: The values of the characteristics are given for information only.

ALLOY : EN AW-6101 [EAI MG SI (A)]

Extruded bar								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
T6 ⁵	≤ 150	≤ 150	200	-	170	-	10	8
Tubo extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T6 ⁵	≤ 25		200	-	170	-	10	8
Perfil extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T6 ⁵	≤ 50		200	-	170	-	10	8
¹ D = Diameter of circular section bars. ² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section. ³ e = Wall thickness. ⁴ Treatment status “F”: The values of the characteristics are given for information only.								

ALLOY : EN AW-6101 [EAI MG SI (B)]

Extruded bar								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
T6 ^{5 6}	-	≤ 15	215	-	160	-	8	6
T7 ^{5 7}	-	≤ 15	170	-	120	-	12	10
Tubo extruido								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	e ³		mín.	máx.	mín.	máx.		
T6 ^{5 6}	≤ 15		215	-	160	-	8	6
T7 ^{5 7}	≤ 15		170	-	120	-	12	10
Perfil extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T6 ^{5 6}	≤ 15		215	-	160	-	8	6
T7 ^{5 7}	≤ 15		170	-	120	-	12	10
¹ D = Diameter of circular section bars. ² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section. ³ e = Wall thickness. ⁵ Features can be obtained by cooling in the press. ⁶ Electrical conductivity γ ≥30 MS/m. ⁷ Electrical conductivity γ ≥32 MS/m.								

ALLOY : EN AW-6005 [Al Si Mg]

Extruded bar								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
T6 ⁵	≤ 25	≤ 25	270	-	225	-	10	8
	25 < D ≤ 50	25 < S ≤ 50	270	-	225	-	8	-
	50 < D ≤ 100	50 < S ≤ 100	260	-	215	-	8	-
Tubo extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T6 ⁵	≤ 5		270	-	225	-	8	6
	5 < e ≤ 10		260	-	215	-	8	6
Perfil extruido ¹⁰								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
Perfil abierto								
T4 ⁵	≤ 25		180	-	90	-	15	13
T6 ⁵	≤ 5		270	-	225	-	8	6
	5 < e ≤ 10		260	-	215	-	8	6
	10 < e ≤ 25		250	-	200	-	8	6
Perfil hueco								
T4 ⁵	≤ 10		180	-	90	-	15	13
T6 ⁵	≤ 5		255	-	215	-	8	6
	5 < e ≤ 15		250	-	200	-	8	6
¹ D = Diameter of circular section bars. ² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section. ³ e = Wall thickness. ⁵ Features can be obtained by cooling in the press. ¹⁰ In the event that the cross section is composed of elements of different thickness for applying different mechanical characteristics especificEachs heat should be considered as valid the entire lower section of the values specified.								

ALLOY : EN AW-6005 A [Al Si MG (A)]

Extruded bar								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
T6 ⁵	≤ 25	≤ 25	270	-	225	-	10	8
	25 < D ≤ 50	25 < S ≤ 50	270	-	225	-	8	-
	50 < D ≤ 100	50 < S ≤ 100	260	-	215	-	8	-
Tubo extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T6 ⁵	≤ 5		270	-	225	-	8	6
	5 < e ≤ 10		260	-	215	-	8	6
Perfil extruido ¹⁰								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
Perfil abierto								
T4 ⁵	≤ 25		180	-	90	-	15	13
T6 ⁵	≤ 5		270	-	225	-	8	6
	5 < e ≤ 10		260	-	215	-	8	6
	10 < e ≤ 25		250	-	200	-	8	6
Perfil hueco								
T4 ⁵	≤ 10		180	-	90	-	15	13
T6 ⁵	≤ 5		255	-	215	-	8	6
	5 < e ≤ 15		250	-	200	-	8	6
¹ D = Diameter of circular section bars. ² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section. ³ e = Wall thickness. ⁵ Features can be obtained by cooling in the press. ¹⁰ In the event that the cross section is composed of elements of different thickness for applying different mechanical characteristics especificEachs heat should be considered as valid the entire lower section of the values specified.								

ALLOY : EN AW-6106 [Al Mg Si Mn]

Extruded bar							
No especificado Tubo extruido							
No especificado Tubo extruido							
Treatment status	Measures mm e ³	R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
		mín.	máx.	mín.	máx.		
T6 ²	≤ 10	250	-	200	-	8	6
¹ D = Diameter of circular section bars. ² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section.							

ALLOY : EN AW-6012 [Al Mg Si Pb]

Extruded bar								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
T6, T6510, T6511 ⁵	≤ 150	≤ 150	310	-	260	-	8	6
	150 < D ≤ 200	150 < S ≤ 200	260	-	200	-	8	-
Tubo extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T6, T6510, T6511 ⁵	≤ 30		310	-	260	-	8	6
Perfil extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T6, T6510, T6511 ⁵	≤ 30		310	-	260	-	8	6
¹ D = Diameter of circular section bars. ² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section. ³ e = Wall thickness. ⁵ Features can be obtained by cooling in the press.								

ALLOY : EN AW-6018 [Al MG 1 SI PB MN]

Extruded bar								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
	≤ 150	≤ 150	310	-	260	-		
T6, T6510, T6511 ⁵	150 < D ≤ 200	150 < S ≤ 200	260	-	200	-	8	-
Tubo extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T6, T6510, T6511 ⁵	≤ 30		310	-	260	-	8	6
Perfil extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T6, T6510, T6511 ⁵	≤ 30		310	-	260	-	8	6
¹ D = Diameter of circular section bars. ² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section. ³ e = Wall thickness. ⁵ Features can be obtained by cooling in the press.								

ALLOY : EN AW-6351 [Al Si 1 MG 0,5 MN]

Extruded bar								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
O, H111	≤ 200	≤ 200	-	160	-	110	14	12
T4 ⁵	≤ 200	≤ 200	205	-	110	-	14	12
T6 ⁵	≤ 20	≤ 20	295	-	250	-	8	6
	20 < D ≤ 75	20 < S ≤ 75	300	-	255	-	8	-
	75 < D ≤ 150	75 < S ≤ 150	310	-	260	-	8	-
	150 < D ≤ 200	150 < S ≤ 200	280	-	240	-	6	-
	200 < D ≤ 250	200 < S ≤ 250	270	-	200	-	6	-
Tubo extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
O, H111	≤ 25		-	160	-	110	14	12
T4 ⁵	≤ 25		205	-	110	-	14	12
T6 ⁵	≤ 5		290	-	250	-	8	6
	5 < e ≤ 25		300	-	255	-	10	8
Perfil extruido ¹⁰								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
O, H111	todas		-	160	-	110	14	12
T4 ⁵	≤ 25		205	-	110	-	14	12
Perfil abierto								
T5	≤ 5		270	-	230	-	8	6
T6 ⁵	≤ 5		290	-	250	-	8	6
	5 < e ≤ 25		300	-	255	-	10	8
Perfil hueco								
T5	≤ 5		270	-	230	-	8	6
T6 ⁵	≤ 5		290	-	250	-	8	6
	5 < e ≤ 15		300	-	255	-	10	8
¹ D = Diameter of circular section bars. ² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section. ³ e = Wall thickness. ⁵ Features can be obtained by cooling in the press. ¹⁰ In the event that the cross section is composed of elements of different thickness for applying different mechanical characteristics especificEachs heat should be considered as valid the entire lower section of the values specified.								

ALLOY : EN AW-6060 [Al Mg Si]

Extruded bar								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
T4 ⁵	≤ 150	≤ 150	120	-	60	-	16	14
T5	≤ 150	≤ 150	160	-	120	-	8	6
T6 ⁵	≤ 150	≤ 150	190	-	150	-	8	6
T64 ^{5 8}	≤ 50	≤ 50	180	-	120	-	12	10
T66 ⁵	≤ 150	≤ 150	215	-	160	-	8	6
Tubo extruido								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	e ³		mín.	máx.	mín.	máx.		
T4 ⁵	≤ 15		120	-	60	-	16	14
T5	≤ 15		160	-	120	-	8	6
T6 ⁵	≤ 15		190	-	150	-	8	6
T64 ^{5 8}	≤ 15		180	-	120	-	12	10
T66 ⁵	≤ 15		215	-	160	-	8	6
Perfil extruido ¹⁰								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T4 ⁵	≤ 25		120	-	60	-	16	14
T5	≤ 5		160	-	120	-	8	6
	5 < e ≤ 25		140	-	100	-	8	6
T6 ⁵	≤ 3		190	-	150	-	8	6
	3 < e ≤ 25		170	-	140	-	8	6
T64 ^{5 8}	≤ 15		180	-	120	-	12	10
T66 ⁵	≤ 3		215	-	160	-	8	6
	3 < e ≤ 25		195	-	150	-	8	6

¹ D = Diameter of circular section bars.
² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section.
³ e = Wall thickness.
⁵ Features can be obtained by cooling in the press.
⁸ Quality of flexion
¹⁰ In the event that the cross section is composed of elements of different thickness for applying different mechanical characteristics especificEachs heat should be considered as valid the entire lower section of the values specified.

ALLOY : EN AW-6061 [Al MG 1 SI CU]

Extruded bar								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
O, H111	≤ 200	≤ 200	-	150	-	110	16	14
T4 ⁵	≤ 200	≤ 200	180	-	110	-	15	13
T6 ⁵	≤ 200	≤ 200	260	-	240	-	8	6
Tubo extruido								
Treatment status	Measures mm e ³	R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.	
		mín.	máx.	mín.	máx.			
O, H111	≤ 25	-	150	-	110	16	14	
T4 ⁵	≤ 25	180	-	110	-	15	13	
T6 ⁵	≤ 5	260	-	240	-	8	6	
	5 < e ≤ 25	260	-	240	-	10	8	
Perfil extruido ¹⁰								
Treatment status	Measures mm	R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.	
	e ³	mín.	máx.	mín.	máx.			
T4 ⁵	≤ 25	180	-	110	-	15	13	
T6 ⁵	≤ 5	260	-	240	-	9	7	
	5 < e ≤ 25	260	-	240	-	10	8	
¹ D = Diameter of circular section bars. ² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section. ³ e = Wall thickness. ⁵ Features can be obtained by cooling in the press. ¹⁰ In the event that the cross section is composed of elements of different thickness for applying different mechanical characteristics especificiEachs heat should be considered as valid the entire lower section of the values specified.								

ALLOY : EN AW-6261 [Al MG 1 SI CU (A)]

Extruded bar								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
O, H111	≤ 100	≤ 100	-	170	-	120	14	12
T4 ⁵	≤ 100	≤ 100	180	-	100	-	14	12
T6 ⁵	≤ 20	≤ 20	290	-	245	-	8	7
	20 < D ≤ 100	20 < S ≤ 100	290	-	245	-	8	-
Tubo extruido								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	e ³		mín.	máx.	mín.	máx.		
O, H111	≤ 10		-	170	-	120	14	12
T4 ⁵	≤ 10		180	-	100	-	14	12
T5	≤ 5		270	-	230	-	8	7
	5 < e ≤ 10		260	-	220	-	9	8
T6 ⁵	≤ 5		290	-	245	-	8	7
	5 < e ≤ 10		290	-	245	-	8	8
Perfil extruido ¹⁰								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
O, H111	todas		-	170	-	120	14	12
T4 ⁵	≤ 25		180	-	100	-	14	12
Perfil abierto T5	≤ 5		270	-	230	-	8	7
	5 < e ≤ 25		260	-	220	-	9	8
	> 25		250	-	210	-	9	-
T6 ⁵	≤ 5		290	-	245	-	8	7
	5 < e ≤ 25		280	-	235	-	8	7
Perfil hueco	≤ 5		270	-	230	-	8	7
T5	5 < e ≤ 10		260	-	220	-	9	8
T6 ⁵	≤ 5		290	-	245	-	8	7
	5 < e ≤ 10		270	-	230	-	9	8

¹ D = Diameter of circular section bars.
² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section.
³ e = Wall thickness.
⁵ Features can be obtained by cooling in the press.
¹⁰ In the event that the cross section is composed of elements of different thickness for applying different mechanical characteristics especifiEachs heat should be considered as valid the entire lower section of the values specified.

ALLOY : EN AW-6261 [Al MG 1 SI PB]

Extruded bar								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
T6 ⁵	≤ 200	≤ 200	260	-	240	-	10	8
Tubo extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T6 ⁵	≤ 25		260	-	240	-	10	8
Perfil extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T6 ⁵	≤ 25		260	-	240	-	10	8
¹ D = Diameter of circular section bars. ² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section. ³ e = Wall thickness. ⁵ Features can be obtained by cooling in the press.								

ALLOY : EN AW-6063 [Al MG 0,7 Si]

Extruded bar								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
O, H111	≤ 200	≤ 200	-	130	-	-	18	16
T4 ⁵	≤ 150	≤ 150	130	-	65	-	14	12
	150 < D ≤ 200	150 < S ≤ 200	120	-	65	-	12	-
T5	≤ 200	≤ 200	175	-	130	-	8	6
T6 ⁵	≤ 150	≤ 150	215	-	170	-	10	8
	150 < D ≤ 200	150 < S ≤ 200	195	-	160	-	10	-
T66 ⁵	≤ 200	≤ 200	245	-	200	-	10	8
Tubo extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
O, H111	≤ 25		-	130	-	-	18	16
T4 ⁵	≤ 10		130	-	65	-	14	12
	10 < e ≤ 25		120	-	65	-	12	10
T5	≤ 25		175	-	130	-	8	6
T6 ⁵	≤ 25		215	-	170	-	10	8
T66 ⁵	≤ 25		245	-	200	-	10	8
Perfil extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T4 ⁵	≤ 25		130	-	65	-	14	12
T5	≤ 3		175	-	130	-	8	6
	3 < e ≤ 25		160	-	110	-	7	5
T6 ⁵	≤ 10		215	-	170	-	8	6
	10 < e ≤ 25		195	-	160	-	8	6
T64 ^{5 8}	≤ 15		180	-	120	-	12	10
T66 ⁵	≤ 10		245	-	200	-	8	6
	10 < e ≤ 25		225	-	180	-	8	6

¹ D = Diameter of circular section bars.
² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section.
³ e = Wall thickness.
⁵ Features can be obtained by cooling in the press.
⁸ Quality of flexion
¹⁰ In the event that the cross section is composed of elements of different thickness for applying different mechanical characteristics especificaEachs heat should be considered as valid the entire lower section of the values specified.

ALLOY : EN AW-6063 [Al MG 0,7 Si (A)]

Extruded bar								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
O, H111	≤ 200	≤ 200	-	150	-	-	16	14
T4 ⁵	≤ 150	≤ 150	150	-	90	-	12	10
	150 < D ≤ 200	150 < S ≤ 200	140	-	90	-	10	-
T5	≤ 200	≤ 200	200	-	160	-	7	5
T6 ⁵	≤ 150	≤ 150	230	-	190	-	7	5
	150 < D ≤ 200	150 < S ≤ 200	220	-	160	-	7	-
Tubo extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
O, H111	≤ 25		-	150	-	-	16	14
T4 ⁵	≤ 10		150	-	90	-	12	10
	10 < e ≤ 25		140	-	90	-	10	8
T5	≤ 25		200	-	160	-	7	5
T6 ⁵	≤ 25		230	-	190	-	7	5
Perfil extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T4 ⁵	≤ 25		150	-	90	-	12	10
T5	≤ 10		200	-	160	-	7	5
	10 < e ≤ 25		190	-	150	-	6	4
T6 ⁵	≤ 10		230	-	190	-	7	5
	10 < e ≤ 25		220	-	180	-	5	4

¹ D = Diameter of circular section bars.
² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section.
³ e = Wall thickness.
⁵ Features can be obtained by cooling in the press.
⁸ Quality of flexion
¹⁰ In the event that the cross section is composed of elements of different thickness for applying different mechanical characteristics especificEachs heat should be considered as valid the entire lower section of the values specified.

ALLOY : EN AW-6463 [Al MG 0,7 Si (B)]

Extruded bar								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
T4 ⁵	≤ 150	≤ 150	125	-	75	-	14	12
T5	≤ 150	≤ 150	150	-	110	-	8	6
T6 ⁵	≤ 150	≤ 150	195	-	160	-	10	8
Tubo extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T6 ⁵	≤ 25		195	-	160	-	10	8
Perfil extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T4 ⁵	≤ 50		125	-	75	-	14	12
T5	≤ 50		150	-	110	-	8	6
T6 ⁵	≤ 50		195	-	160	-	10	8
¹ D = Diameter of circular section bars. ² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section. ³ e = Wall thickness. ⁵ Features can be obtained by cooling in the press. ⁸ Quality of flexion ¹⁰ In the event that the cross section is composed of elements of different thickness for applying different mechanical characteristics especificiEachs heat should be considered as valid the entire lower section of the values specified.								

ALLOY : EN AW-6081 [Al Si 0,9 MG MN]

Extruded bar								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
T6 ⁵	≤ 250	≤ 250	275	-	240	-	8	6
Tubo extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T6 ⁵	≤ 25		275	-	240	-	8	6
Perfil extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
Perfil abierto								
T6 ⁵	≤ 25		275	-	240	-	8	6
Perfil hueco								
T6 ⁵	≤ 15		275	-	240	-	8	6
¹ D = Diameter of circular section bars. ² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section. ³ e = Wall thickness. ⁵ Features can be obtained by cooling in the press.								

ALLOY : EN AW-6082 [Al Si 1 Mg Mn]

Extruded bar								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
O, H111	≤ 200	≤ 200	-	160	-	110	14	12
T4 ⁵	≤ 200	≤ 200	205	-	110	-	14	12
T6 ⁵	≤ 20	≤ 20	295	-	250	-	8	6
	20 < D ≤ 150	20 < S ≤ 150	310	-	260	-	8	-
	150 < D ≤ 200	150 < S ≤ 200	280	-	240	-	6	-
	200 < D ≤ 250	200 < S ≤ 250	270	-	200	-	6	-
Tubo extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
O, H111	≤ 25		-	160	-	110	14	12
T4 ⁵	≤ 25		205	-	110	-	14	12
T6 ⁵	≤ 5		290	-	250	-	8	6
	5 < e ≤ 25		310	-	260	-	10	8
Perfil extruido ¹⁰								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
O, H111	todas		-	160	-	110	14	12
T4 ⁵	≤ 25		205	-	110	-	14	12
Perfil abierto								
T5	≤ 5		270	-	230	-	8	6
T6 ⁵	≤ 5		290	-	250	-	8	6
	5 < e ≤ 25		310	-	260	-	10	8
Perfil hueco								
T5	≤ 5		270	-	230	-	8	6
T6 ⁵	≤ 5		290	-	250	-	8	6
	5 < e ≤ 15		310	-	260	-	10	8

¹ D = Diameter of circular section bars.

² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section.

³ e = Wall thickness.

⁵ Features can be obtained by cooling in the press.

¹⁰ In the event that the cross section is composed of elements of different thickness for applying different mechanical characteristics especificEachs heat should be considered as valid the entire lower section of the values specified.

ALLOY : EN AW-7003 [Al ZN 6 MG 0,8 ZR]

Extruded bar							
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.	
T5	todas	todas	310	-	260	-	10
T6 ⁵	≤ 50	≤ 50	350	-	290	-	10
	50 < D ≤ 150	50 < S ≤ 150	340	-	280	-	10
Tubo extruido							
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.
	e ³		mín.	máx.	mín.	máx.	
T5	todas		310	-	260	-	10
T6 ⁵	≤ 10		350	-	290	-	10
	10 < e ≤ 25		340	-	280	-	10
Perfil extruido ¹⁰							
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.
			mín.	máx.	mín.	máx.	
T5	todas		310	-	260	-	10
T6 ⁵	≤ 10		350	-	290	-	10
	10 < e ≤ 25		340	-	280	-	10

¹ D = Diameter of circular section bars.
² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section.
³ e = Wall thickness.
⁵ Features can be obtained by cooling in the press.
¹⁰ In the event that the cross section is composed of elements of different thickness for applying different mechanical characteristics especificaEachs heat should be considered as valid the entire lower section of the values specified.

ALLOY : EN AW-7005[Al ZN 4,5 MG 1,5 MN]

Extruded bar								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
T6 ⁵	≤ 50	≤ 50	350	-	290	-	10	8
	50 < D ≤ 200	50 < S ≤ 200	340	-	270	-	10	-
Tubo extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T6 ⁵	≤ 15		350	-	290	-	10	8
Perfil extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T6 ⁵	≤ 40		350	-	290	-	10	8
¹ D = Diameter of circular section bars. ² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section. ³ e = Wall thickness. ⁵ Features can be obtained by cooling in the press.								

ALLOY : EN AW-7020 [Al ZN 4,5 MG 1]

Extruded bar								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
T6 ⁵	≤ 50	≤ 50	350	-	290	-	10	8
	50 < D ≤ 200	50 < S ≤ 200	340	-	275	-	10	-
Tubo extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T6 ⁵	≤ 15		350	-	290	-	10	8
Perfil extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T6 ⁵	≤ 40		350	-	290	-	10	8
¹ D = Diameter of circular section bars. ² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section. ³ e = Wall thickness. ⁵ Features can be obtained by cooling in the press.								

ALLOY : EN AW-7022 [Al ZN 5 MG 3 CU]

Extruded bar								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
T6, T6510, T6511 ⁵	≤ 80	≤ 80	490	-	420	-	7	5
	80 < D ≤ 200	80 < S ≤ 200	470	-	400	-	7	-
Tubo extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T6, T6510, T6511 ⁵	≤ 30		490	-	420	-	7	5
Perfil extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T6, T6510, T6511 ⁵	≤ 30		490	-	420	-	7	5
¹ D = Diameter of circular section bars. ² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section. ³ e = Wall thickness. ⁵ Features can be obtained by cooling in the press.								

ALLOY : EN AW-7049 [Al ZN 8 MG CU]

Extruded bar								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
T6, T6510, T6511	≤ 100	≤ 100	610	-	530	-	5	4
	100 < D ≤ 125	100 < S ≤ 125	560	-	500	-	5	-
	125 < D ≤ 150	125 < S ≤ 150	520	-	430	-	5	-
	150 < D ≤ 180	150 < S ≤ 180	450	-	400	-	3	-
Tubo extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T6, T6510, T6511	≤ 30		610	-	530	-	5	4
Perfil extruido								
Treatment status	Measures mm e ³		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
			mín.	máx.	mín.	máx.		
T6, T6510, T6511	≤ 30		610	-	530	-	5	4
¹ D = Diameter of circular section bars. ² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section. ³ e = Wall thickness.								

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Extruded bar								
Treatment status	Measures mm		R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.
	D ¹	S ²	mín.	máx.	mín.	máx.		
O, H111	≤ 200	≤ 200	-	275	-	165	10	8
T6, T6510, T6511	≤ 25	≤ 25	540	-	480	-	7	5
	25 < D ≤ 100	25 < S ≤ 100	560	-	500	-	7	-
	100 < D ≤ 150	100 < S ≤ 150	530	-	470	-	6	-
	150 < D ≤ 200	150 < S ≤ 200	470	-	400	-	5	-
T73, T73510, T73511 ⁹	≤ 25	≤ 25	485	-	420	-	7	5
	25 < D ≤ 75	25 < S ≤ 75	475	-	405	-	7	-
	75 < D ≤ 100	75 < S ≤ 100	470	-	390	-	6	-
	100 < D ≤ 150	100 < S ≤ 150	440	-	360	-	6	-
Tubo extruido								
Treatment status	Measures mm e ³	R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.	
		mín.	máx.	mín.	máx.			
O, H111	≤ 10	-	275	-	165	10	-	
T6, T6510, T6511	≤ 5	540	-	485	-	8	6	
	5 < e ≤ 10	560	-	505	-	7	5	
	10 < e ≤ 50	560	-	495	-	6	4	
T73, T73510, T73511 ⁹	≤ 5	470	-	400	-	7	5	
	5 < e ≤ 25	485	-	420	-	8	6	
	25 < e ≤ 50	475	-	405	-	8	-	
Perfil extruido ¹⁰								
Treatment status	Measures mm e ³	R _m Mpa		R _{p0.2} Mpa		A % mín.	A _{50 mm} % mín.	
		mín.	máx.	mín.	máx.			
T6, T6510, T6511	≤ 25	530	-	460	-	6	4	
	25 < e ≤ 60	540	-	470	-	6	-	
T73, T73510, T73511 ⁹	≤ 25	485	-	420	-	7	5	
¹ D = Diameter of circular section bars. ² S = Distance between faces for square bars and hexagonal bar thickness of rectangular section. ³ e = Wall thickness. ⁵ Features can be obtained by cooling in the press. ¹⁰ In the event that the cross section is composed of elements of different thickness for applying different mechanical characteristics specificEachs heat should be considered as valid the entire lower section of the values specified.								