

ALUMINIUM TUBES

Aluminium – The ideal material

Aluminium – The ideal material not only for the automotive industry. Our aluminium tubes fulfil the requirements for low weight, high consistency, good corrosion resistance, high electrical and thermal conduction.

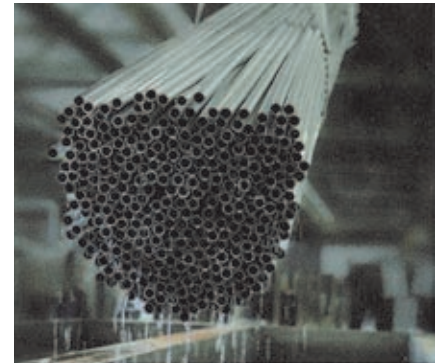
These characteristics make our aluminium tubes indispensable for many industries with ever changing challenges towards the functionality of aluminium as a material.

Dimensions

Al und Al alloys

Alloy	Numerical	Outside diameter [mm]	Wall thickness [mm]	Straight lengths [mm]	Bunch coils [kg]	Level-wound coils [kg]
EN AW-Al99,5	EN AW-1050A	2,0-100,0	0,15-6,00	50-6000	10-20	max approx. 50
EN AW-AlCu4MgSi(A)	EN AW-2017A	5,0-60,0	1,5-6,00	50-6000		
EN AW-AlCu4Mg1	EN AW-2024	5,0-60,0	1,5-6,00	50-6000		
EN AW-AlMn1Cu	EN AW-3003	2,0-100,0	0,15-6,00	50-6000	10-20	max approx. 500
EN AW-AlMn1	EN AW-3103	2,0-100,0	0,15-6,00	50-6000	10-20	max approx. 500
EN AW-AlMg2Mn0,8	EN AW-5049	3,0-100,0	0,30-3,00	50-6000	10-20	max approx. 40
EN AW-AlMg2,5	EN AW-5052	3,0-100,0	0,30-3,00	50-6000		
EN AW-AlMg3	EN AW-5754	3,0-100,0	0,30-3,00	50-6000	10-20	
EN AW-AlMgSi	EN AW-6060	3,0-100,0	0,30-6,00	50-6000	10-20	max approx. 50
EN AW-AlSi1MgMn	EN AW-6082	3,0-100,0	0,30-6,00	50-6000		
EN AW-AlZn4,5Mg1	EN AW-7020	5,0-60,0	0,70-6,00	50-6000		
EN AW-AlZn5,5MgCu	EN AW-7075	5,0-60,0	0,70-6,00	50-6000		
S-LIFE®		2,0-25,0	0,15-2,00	50-6000	10-20	max approx. 500

Further alloys, dimensions and mechanical data on request.



Profiles



Mechanical properties Al and Al-alloys (according to DIN EN 754-2)

Alloy	Numerical	Temper		Rp _{0,2} min [MPa]	Rm min [MPa]	Rm max [MPa]	A min [%]
EN AW-Al 99,5	EN AW-1050A	0 / H111	soft	-	60	95	25
		H14	1/2 hard	70	100	135	6
		H16	3/4 hard	105	120	160	4
		H18	hard	125	145	-	3
Tubes for general applications, in particular for high chemical resistance.							
EN AW-AlCu4MgSi(A)	EN AW-2017A	T3		250	400		10
Heat treatable alloy. Guarantees excellent machining and stability under load.							
EN AW-AlCu4Mg1	EN AW-2024	T3		290	440		10
Heat treatable alloy. Guarantees excellent machining and stability under load; higher than 2017A.							
EN AW-AlMn1Cu	EN AW-3003	0 / H111	soft	35	95	130	25
EN AW-AlMn1	EN AW-3103	H12	1/4 hard	75	115	150	14
		H14	1/2 hard	110	130	165	6
		H16	3/4 hard	130	160	195	4
		H18	hard	145	180	-	3
Higher strength than Al 99,5. Same – in some cases better – resistance than Al 99,5. Good formability.							
EN AW-AlMg2Mn0,8	EN AW-5049	0 / H111	soft	80	180	250	17
		H11	1/8 hard	100	195	260	13
		H14	1/2 hard	160	240	290	4
		H18	hard	240	280	150	2
Sea water-resistant. Suitable for demanding applications, good welding and cold forming properties. Temper according to DIN 1746: 1987.							
EN AW-AlMg2,5	EN AW-5052	0	soft	65	170	230	20
		H14/H24/H34	1/2 hard	180	230	270	5
		H18/H28/H38	hard	220	270	-	2
Relatively high tensile strength, relatively good formability. Good anodising and welding properties, sea water-resistant.							
EN AW-AlMg3	EN AW-5754	0	soft	80	180	250	16
		H14/H24/H34	1/2 hard	180	240	290	4
		H18/H28/H38	hard	240	280	-	3
Good anodising and welding properties, sea water and weather-resistant.							
EN AW-AlMgSi	EN AW-6060	T4	naturally aged	65	130	-	12
		T6	artificially aged	160	215	-	12
		T8	special treatment	200	250	-	5
Heat treatable alloy for standard applications, particularly suitable for decorative anodising.							
EN AW-AlMgSi1MgMn	EN AW-6082	T4	naturally aged	110	205	-	14
		T6	artificially aged	255	310	-	8
		T8	special treatment	320	350	-	8
As for EN AW-AlMgSi; but with higher strength values and less suitable for decorative anodising.							
EN AW-AlZn4,5Mg1	EN AW-7020	T6	artificially aged	280	350	-	10
Heat treatable alloy. Excellent welding properties.							
EN AW-AlZn5,5MgCu	EN AW-7075	T6	artificially aged	485	540	-	7
Heat treatable alloy with properties very similar to steel for particularly demanding applications.							
S-LIFE®		H12	1/4 hard	80	105	-	25
		H14	1/2 hard	90	115	-	15
		H18	hard	120	135	-	5
Very high corrosion resistance. Excellent SWAAT performance. See datasheet S-LIFE®.							