

**ALLOY STANDARDS**

EUROPEAN STANDARD	BRITISH STANDARD	US STANDARD (AA)	GERMAN STANDARD (DIN)	ISO STANDARD	INDIAN STANDARD	CANADIAN STANDARD
EN AW-1050A	1E	1050	Al99.5	Al99.5	19500, 19501	1 S
EN AW-1070A	-	1070	Al-99.7	Al-99.7	19700	-
EN AW-1100	IC	1100	Al-99.0	Al-99.0	19000	2 S
EN AW-2011**	FC1	2011	AlCuBiPb	AlCu6BiPb	-	28S
EN AW-2111	-	2111	-	-	-	-
EN AW-2017A**	-	A92017	3.1325 AlCuMg1	AlCuMgSi	-	-
EN AW-2014**	HE15	2014	AlCuSiMn	AlCu4SiMg	24345	B26S
EN AW-2024**	-	2024	AlCuMg2	AlCu4Mg1	-	24 S
EN AW-3003	N3	3003	AlMnCu	AlMn1Cu	31000	3 S
EN AW-3103	-	3103	-	AlMn1	-	-
EN AW-5083**	-	5083	AlMg4.5Mn0.7	AlMg4.5Mn	54300	-
EN AW-6101B	E91E	6101	E AlMgSi 0.5	E AlMgSi(A)	63401	D50S
EN AW-6005	-	6005	AlMgSi0.7	AlSiMg	62400	C51S
EN AW-6005A	-	6005A	AlMgSi(A)	AlSiMg(A)		
EN AW-6351	HE30	6351	AlMgSi1	AlSiMg0.5Mn	64430	B51S
EN AW-6060	-	6060	AlMgSi 0.5	AlMgSi	-	-
EN AW-6061	HE20	6061	AlMgSiCu	AlMg1SiCu	65032	65S
EN AW-6063	HE9	6063	AlMgSi0.5	AlMg0.7Si	63400	50S
EN AW-6082	HE30	6351	AlMgSi1	AlSi1MgMn	64430	B51S
EN AW-6262**	-	6262	AlMg1SiPb	-	-	-
EN AW-6042**	-	6042	-	-	-	-
EN AW-6026LF**	-	6026	AlMg3	-	-	-

**CHEMICAL COMPOSITION**

ALLOY	% Si	% Mg	% Mn	% Cu	% Fe	% Cr	% Zn	% Ti	% OTHERS	% Al
EN AW-1050 A	0.25 Max	0.05 Max	0.05 Max	0.05 Max	0.40 Max	-	0.07 Max	0.05 Max	-	99.5 Min
EN AW-1070 A	0.20 Max	0.03 Max	0.03 Max	0.03 Max	0.25 Max	-	0.07 Max	0.03 Max	-	99.7 Min
EN AW-1100	Si+Fe 0.95 Max	-	0.05 Max	0.05 - 0.20	-	-	0.10 Max	0.05 Max	-	99.0 Min
EN AW-2011**	0.40 Max	-	-	5.00 - 6.00	0.70 Max	-	0.30 Max	-	Bi : 0.20 - 0.60 Pb : 0.20 - 0.60	Bal.
EN AW-2111	0.40 Max	-	-	4.5-6.00	0.70 Max	-	0.30 Max	-	Bi : 0.5 - 0.80 Sn : 0.15 - 0.35 Pb : 0.05 Max	Bal.
EN AW-2017A**	0.20 - 0.80	0.40 - 1.0	0.40 - 1.0	3.50 - 4.5	0.70 Max	0.10 Max	0.25 Max	0.15 Max	-	Bal.
EN AW-2014**	0.50 - 1.20	0.20 - 0.80	0.40 - 1.20	3.90 - 5.00	0.70 Max	0.10 Max	0.25 Max	0.15 Max	-	Bal.
EN AW-2024**	0.50 Max	1.20 - 1.80	0.30 - 0.90	3.80 - 4.90	0.50 Max	0.10 Max	0.25 Max	0.15 Max	0.15 Max	Bal.
EN AW-3003	0.60 Max	-	1.00 - 1.50	0.05 - 0.20	0.70 Max	-	0.10 Max	-	0.15 Max	Bal.
EN AW-3103	0.50 Max	0.30 Max	0.90 - 1.50	0.10 Max	0.70 Max	0.10 Max	0.20 Max	0.10 Max	-	Bal.
EN AW-5083**	0.40 Max	4.0 - 4.90	0.40 - 1.00	0.10 Max	0.40 Max	0.05 - 0.25	0.25 Max	0.15 Max	0.15 Max	Bal.
EN AW-6101B	0.30 - 0.7	0.40 - 0.90	0.03 Max	0.05 Max	0.40 Max	-	-	-	0.10 Max	Bal.
EN AW-6005	0.60 - 0.90	0.40 - 0.60	0.10 Max	0.10 Max	0.35 Max	0.10 Max	0.10 Max	0.10 Max	-	Bal.
EN AW-6005A	0.50 - 0.90	0.40 - 0.70	0.50 Max	0.30 Max	0.35 Max	0.30 Max	0.20 Max	0.10 Max	0.15 Max	Bal.
EN AW-6351	0.70 - 1.30	0.40 - 0.80	0.40 - 0.80	0.10 Max	0.50 Max	-	0.20 Max	0.20 Max	0.15 Max	Bal.
EN AW-6060	0.30 - 0.60	0.35 - 0.60	0.10 Max	0.10 Max	0.10 - 0.30	0.05 Max	0.15 Max	0.10 Max	-	Bal.
EN AW-6061	0.40 - 0.80	0.80 - 1.20	0.15 Max	0.15 - 0.40	0.70 Max	0.04 - 0.35	0.25 Max	0.15 Max	-	Bal.
EN AW-6063	0.20 - 0.60	0.45 - 0.90	0.10 Max	0.10 Max	0.35 Max	0.10 Max	0.10 Max	0.10 Max	-	Bal.
EN AW-6082	0.70 - 1.30	0.60 - 1.20	0.40 - 1.00	0.10 Max	0.50 Max	0.25 Max	0.20 Max	0.10 Max	-	Bal.
EN AW-6262**	0.40 - 0.80	0.80 - 1.20	0.15 Max	0.15 - 0.40	0.70 Max	0.04 - 0.14	0.25 Max	0.15 Max	Bi : 0.40 - 0.70 Pb : 0.40 - 0.70	Bal.
EN AW-6042**	0.50 - 1.2	0.70 - 1.20	0.40 Max	0.20 - 0.50	0.7 Max	0.04 - 0.35	0.25 max	0.15 max	Bi : 0.20 - 0.80 Pb : 0.15 - 0.40	Bal.
EN AW-6026LF**	0.60 - 1.40	0.60 - 1.20	0.2 - 1.00	0.20-0.50	0.70 Max	0.30 Max	0.30 Max	0.20 Max	Bi : 0.50 - 1.50 Pb : 0.05 Max	Bal.

**MECHANICAL PROPERTIES**

ALLOY	TEMPER	UTS (MPA)		YIELD STRENGTH (MPA)		ELONGATION (%)	ELECTRICAL PROPERTIES	APPLICATIONS
		MIN	MAX	MIN	MAX	A 50 mm (MIN)	% IACS (MIN)	
EN AW-1050A	F	60	-	20	-	23	60	Electrical Conductors, Bus bar, wire, cable sheathing, imact-extruded products, pressing utilities of anodizing quality, pen, caps, piping
	O	60	95	20	-	23	61	
EN AW-1070A	F	60	-	20	-	23	61	
EN AW-1100	O	75	110	-	-	25	-	Load cell, Highly stressed component of all type in aircraft, ordnance and general engineering, heavy duty forgigs, truck frames, suspension component, screw machine products
EN AW-2011**	T4	275	-	125	-	12	-	
	T6	310	-	230	-	6	-	
	T8	370	-	270	-	6	-	
EN AW-2111**	T4	275	-	125	-	12	-	
	T6	310	-	230	-	6	-	
	T8	370	-	270	-	6	-	
EN AW-2017A**	O	225	-	145	-	12	-	
	H111	250	-	135	-	10	-	
	T4	360	400	220	270	8	-	
EN AW-2014**	O	250	-	135	-	10	-	
	T4	370	-	230	-	11	-	
	T6	415	-	370	-	5	-	
EN AW-2024**	O	-	250	-	150	10	-	
	T3,T3510,T3511	395	-	290	-	6	-	
	T8,T8510,T8511	455	-	380	-	4	-	
EN AW-3003	F	95	-	35	-	20	-	Medium strength applications for tubing, heat exchanger, condenser, air-conditioning
	O	95	135	35	-	20	-	
EN AW-3103	F	95	-	35	-	20	-	
	O	95	135	35	-	20	-	High Strength Non heat treatable Alloy. highly resistant to attack by seawater and industrial chemicals. retains exceptional strength after welding.
EN AW-5083**	F	270	345	115	200	12	-	
	O	270	345	115	200	12	-	Electrical Conductors, Bus bar
EN AW-6101B/63401	T6	200	-	170	-	8	55	
	T7	170	-	135	-	8	56.5	
EN AW-6005	T4	180	-	90	-	13	-	Screw machine products, camera patrs, nuts, couplings, marine fittings, tubing for furniture, railways, ladders, transportation, general machining application
	T6	270	-	225	-	6	-	
EN AW-6005A	T4	180	-	90	-	13	-	
	T6	270	-	225	-	6	-	Building hardware, architechtural, medium strength furniture, and general appplication
EN AW-6351	O	-	160	-	110	12	-	
	T4	205	-	110	-	12	-	
	T6	290	-	250	-	6	-	Heavy duty structures, sections for transport body structure e.g bus, trucks, rail coach, Automotive, general machining
EN AW-6060	T4	120	-	60	14	12	-	
	T5	160	-	120	-	6	46	
	T6	190	-	150	-	6	48	
	T64	180	-	120	-	10	48	
	T66	215	-	160	-	6	49	Pneumatic cyclinders, oxygen cylinders, Building hardware, architechtural, medium strength furniture, and general appplication
EN AW-6061	O	-	150	-	110	14	-	
	T4	180	-	110	-	13	-	
	T6	260	-	240	-	6	-	Heavy duty structures truss, crane, sections for transport body structure e.g bus, trucks, rail coach, Automotive components, general machining, general engineering
EN AW-6063	O	-	130	-	-	16	-	
	T4	130	-	65	-	12	-	
	T5	175	-	130	-	6	46	
	T6	215	-	170	-	6	48	General machining with good conductivity, electrical/electronics components
	T66	245	-	200	-	6	49	
EN AW-6082	O	-	160	-	110	12	-	
	T4	205	-	110	-	12	-	Lead free General Engineering, machining components, e.g Nuts, bolts, screw, textile components
	T5	270	-	230	-	6	-	
	T6	290	-	250	-	6	-	
EN AW-6262**	T5, T5511	280	-	260	-	10	44	General machining with good conductivity, electrical/electronics components
EN AW-6042**	T5, T5511	265	-	242	-	10	44	
EN AW-6026LF**	T4	220	-	120	-	12	-	Lead free General Engineering, machining components, e.g Nuts, bolts, screw, textile components
	T6	360	-	300	-	6	-	

**Note :**

\*\* Indicates minimum order quantity (MOQ) for the Alloy

We offer high strength electrical bus bar and conductors ( EN AW-6101A )

We also produce alloys as per specific requirements.

**ELECTRICAL PROPERTIES**

ALLOY	TEMPER	UTS (MPA)		YIELD STRENGTH (MPA)		ELONGATION (%)	ELECTRICAL CONDUCTIVITY	BENDING RADIUS
		MIN	MAX	MIN	MAX	A 50 mm (MIN)	%IACS (Min)	
EN AW-1050 A	F	60	-	20	-	23	60	T upto 12 mm, inside bending radius 1.0 T
	O	60	95	20	-	23	60	
EN AW-1070 A	F	60	-	20	-	23	61	
EN AW-1100	O	75	110	-	-	25	61	
EN AW-6101B	T4	140	-	80	-	12	-	T 3.0 - 9.5 mm, inside bending radius 1.0 T
	T7	170	-	135	-	8	56.5	
	T6	200	-	170	-	8	55	T 9.5 - 12.0 mm, inside bending radius 1.5 T
EN AW-63401	WP	140	-	80	-	12	-	T 3.0 - 9.5 mm, inside bending radius 2.0 T
	WP R2	200	-	170	-	8	55	T 9.5 - 12.0 mm, inside bending radius 2.5 T
	WP R1	170	-	135	-	8	56.5	