

CHEMICAL COMPOSITION

Aluminium and aluminium alloys

Alloy designation:

EN AW	Al Cu4 Mg1
Old designation	Al Cu Mg2
Material no. according to DIN	3.1355
Great Britain BS	L97
Italy UNI	9002/4
Spain	L-3140
Sweden	
Norway	
France AFNOR	A-U4G1
Colour code	RAL 2004 Pure Orange

Typical physical properties:

Density [g/cm ³]	2,77	
Elastic modulus [GPa]	73,0	
Thermal conductivity [W/m*K]	130 – 150	
Thermal expansion coefficient [K ⁻¹ *10 ⁻⁶]	-50°C – 20°C	21,1
	20°C – 100°C	22,9
	20°C – 200°C	23,8
	20°C – 300°C	24,7
Specific heat J/(kg * K)	875	
Electrical conductivity [m/Ω*mm ²]	18 – 21	
Shear modulus [GPa]	27,4	

Chemical composition* (EN 573-3):

Specifications in %												Remainder: Aluminium		Other	
Si	Fe	Cu	Mn	Mg	Cr	Zn	Ni	Ti	Ga	V	Note	Individual	Total ²		
0,50	0,50	3,8 – 4,9	0,30 – 0,90	1,2 – 1,8	0,10	0,25	-	0,15	-	-	³	0,05	0,15		

^x Chemical specifications as perc. of weight. If no ranges are specified, the alloy content has the maximum value.

² Includes all items listed for which no limit values are specified.

³ Sum for Zr+Ti max. 0,20. This applies to forged or extruded products when the value has been agreed upon between the customer and supplier.

Special features of this material:

- Good machinability
- High strength
- Curable

Applications:

- Machine construction
- High-strength constructions
- Aerospace
- Military technology

Available forms:

Sheets · Plates · Cuttings · Circular blanks · Rings · Bars · Tubes · Wires · Parts from drawings

Heat treatment:

Soft annealing / recrystallisation annealing	
Annealing temperature	380°C – 420°C
Heating-up time	2 – 3 hours
Cooling conditions	Cooling conditions 30°C/h to 250°C, below 250°C in air

Other data:

Processing / machinability

Soft annealed	3
Work-hardened	-
Heat-treated	2
Dimensional stability	4
Erosion	1

Surface treatment

Anodising - (protective anodisation)	2
Special anodising quality (EQ) ^{EQ}	-
Anodising - decorative	5
Painting / coating	3
Polishing	1

Welding

	Filler metal
Gas	5
WIG	5
MIG	5
Resistance welding	1

Solder

Brazing with flux	5
Brazing without flux	5
Abrasion soldering	3
Soft soldering with flux	5

Legend:

- 1 very good
- 2 good
- 3 moderate
- 4 poor
- 5 unsuited
- EQ anodising quality must be ordered separately and confirmed

Hardening	
Solution annealing	495°C – 505°C
Quenching	water
Natural ageing treatment	5 – 8 days
Artificial ageing treatment	180 °C – 195 °C approx. 16 – 24 hours

Corrosion resistance

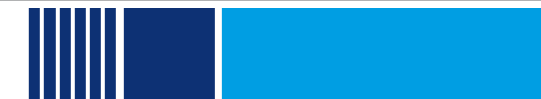
In a normal atmosphere/ weather conditions	4 – 5
Sea water atmosphere	4 – 5

Metal forming

Cold forming	Delivery condition	
Bending	4	O
Pressure forming	3	O
Deep drawing (condition-based)	3	O
Upsetting (condition-based)	4	O
Impact extrusion	4	O
Hot forming		
Drop forging	4	
Extrusion moulding	5	
Hammer forging	3	

Suitable for food industry according to DIN EN 602	no
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Aluminium and aluminium alloys

EN AW-2024 Al Cu4 Mg1

EN 485-2 Mechanical properties:

Delivery condition ⁵	Nominal thickness mm		Tensile strength R_m MPa		Elastic limit $R_{p0.2}$ MPa		Elongation % min.		Bending radius ⁹		Hardness ⁹ HBW
	over	to	min.	max.	min.	max.	A50 mm	A	180°	90°	
T351	≥ 0,4	1,5	435	-	290	-	12	-	4,0 t ⁸	4,0 t ⁸	123
	1,5	3,0	435	-	290	-	14	-	4,0 t ⁸	4,0 t ⁸	123
	3,0	6,0	440	-	290	-	14	-	5,0 t ⁸	5,0 t ⁸	124
	6,0	12,5	440	-	290	-	13	-	-	8,0 t ⁸	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

⁵ Other possible delivery conditions for this alloy: O · T3 · T4 · T42 · T62 · T8 · T851

⁸ Considerably lower bending radii can be obtained immediately after solution annealing.

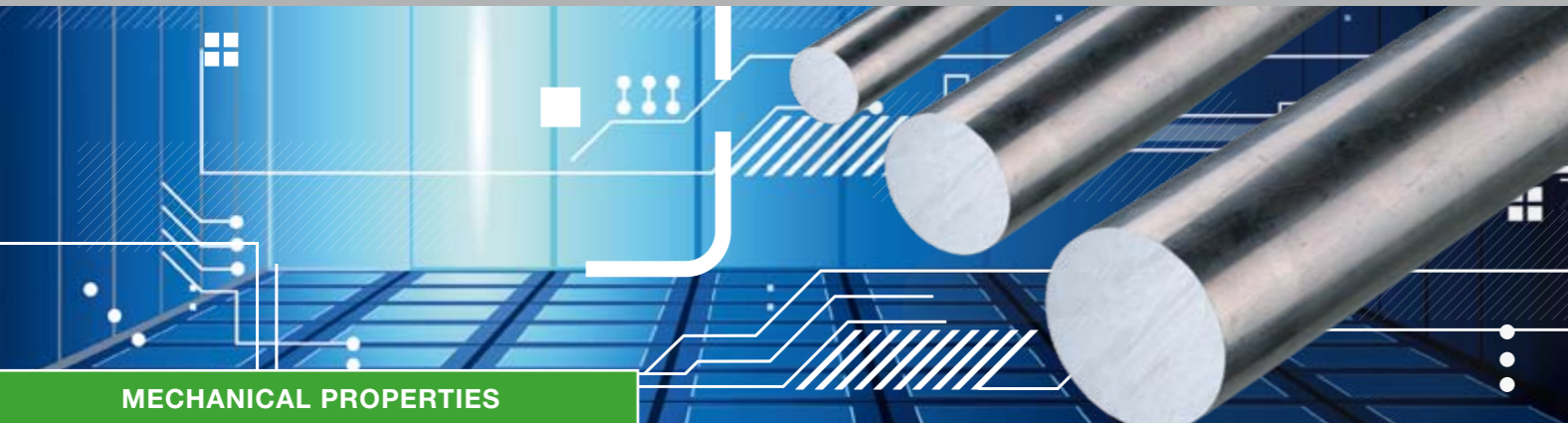
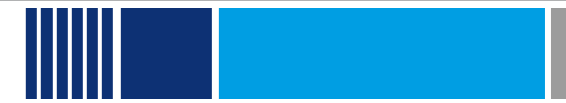
⁹ For information only

We supply aluminium sheets and plates of alloy EN AW-2024 · Al Cu4 Mg Si(A) in the following dimensions:

	Length x Width mm	Length x Width mm	Length x Width mm
Standard plates	2.000 x 1.000	2.500 x 1.250	3.020 x 1.520
Super formats: on request	4.000 x 2.000	6.000 x 2.000	8.000 x 2.000

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MECHANICAL PROPERTIES

Aluminium and aluminium alloys

EN AW-2024 Al Cu4 Mg1

EN 754-2 Mechanical properties: round bars – drawn

Delivery condition ⁵	Dia. mm	Tensile strength R_m MPa		Elastic limit $R_{p0.2}$ MPa		Elongation % min.		Hardness ⁹ HBW
		min.	max.	min.	max.	A50 mm	A	
T3	≤ 10	425	-	310	-	8	10	120
	> 10 to ≤ 80	425	-	290	-	7	9	120
T351	≤ 80	425	-	310	-	6	8	120
⁵	Other possible delivery conditions for this alloy: 0, H111, T6, T651, T8, T851							
⁹	For information only							

EN 755-2 Mechanical properties: round bars – pressed

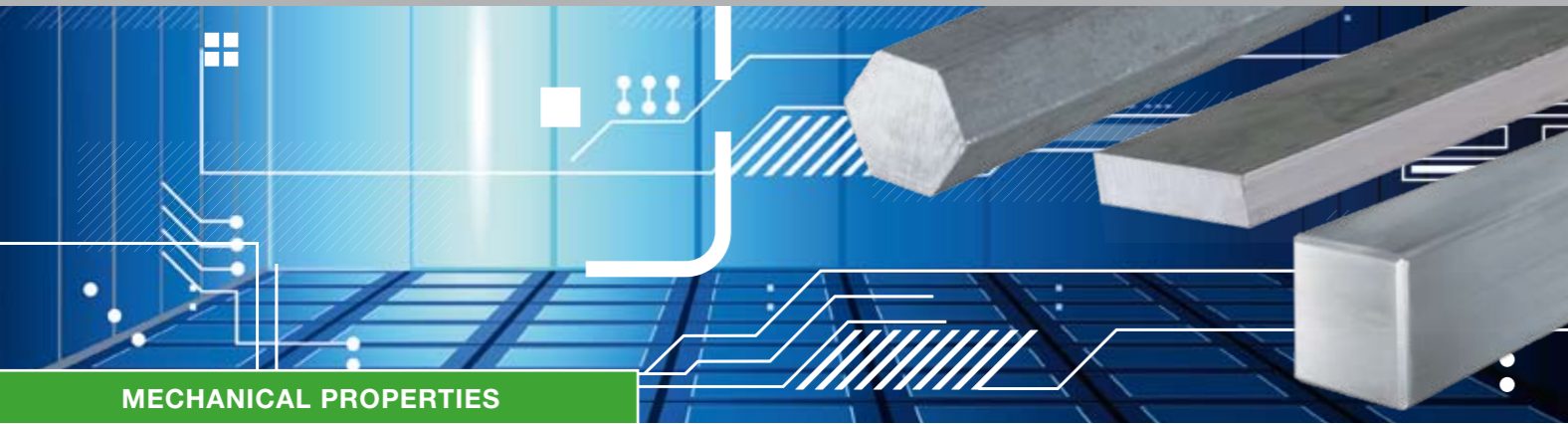
Delivery condition ⁵	Dia. mm	Tensile strength R_m MPa		Elastic limit $R_{p0.2}$ MPa		Elongation % min.		Hardness ⁹ HBW
		min.	max.	min.	max.	A50 mm	A	
T3 T3510 T3511	≤ 50	450	-	310	-	6	8	120
	> 50 to ≤ 100	440	-	300	-	-	8	120
	> 100 to ≤ 200	420	-	280	-	-	8	120
	> 200 to ≤ 250	400	-	270	-	-	8	120
⁵	Other possible delivery conditions for this alloy: 0, H111, T6, T651, T8, T851							
⁹	For information only							

We supply aluminium round bars of alloy 2024 in the following dimensions:

Thickness mm	drawn: 2 - 18	pressed: 12 -350
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Aluminium and aluminium alloys

EN AW-2024 Al Cu4 Mg1

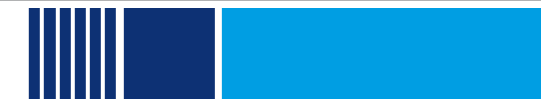
EN 754-2 Mechanical properties: Bars – drawn square · flat · hexagonal

Delivery condition ⁵	Thickness for flat 4 + 6 pt: wrench size	Tensile strength R_m MPa		Elastic limit $R_{p0.2}$ MPa		Elongation % min.		Hardness ⁹ HBW
		min.	max.	min.	max.	A50 mm	A	
T3	≤ 10	425	-	310	-	8	10	120
	> 10 to ≤ 80	425	-	290	-	7	9	120
T351	≤ 80	425	-	310	-	6	8	120
⁵	Other possible delivery conditions for this alloy: O, H111, T6, T651, T8, T851							
⁹	For information only							

EN 755-2 Mechanical properties: Bars – pressed square · flat · hexagonal

Delivery condition ⁵	Thickness for flat 4 + 6 pt: wrench size	Tensile strength R_m MPa		Elastic limit $R_{p0.2}$ MPa		Elongation % min.		Hardness ⁹ HBW
		min.	max.	min.	max.	A50 mm	A	
T3 T3510 T3511	≤ 50	450	-	310	-	6	8	120
	> 50 to ≤ 100	440	-	300	-	-	8	120
	> 100 to ≤ 200	420	-	280	-	-	8	120
	> 200 to ≤ 250	400	-	270	-	-	8	120
⁵	Other possible delivery conditions for this alloy: O, H111, T8, T8510, T8511							
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MECHANICAL PROPERTIES

Aluminium and aluminium alloys

EN AW-2024 Al Cu4 Mg1

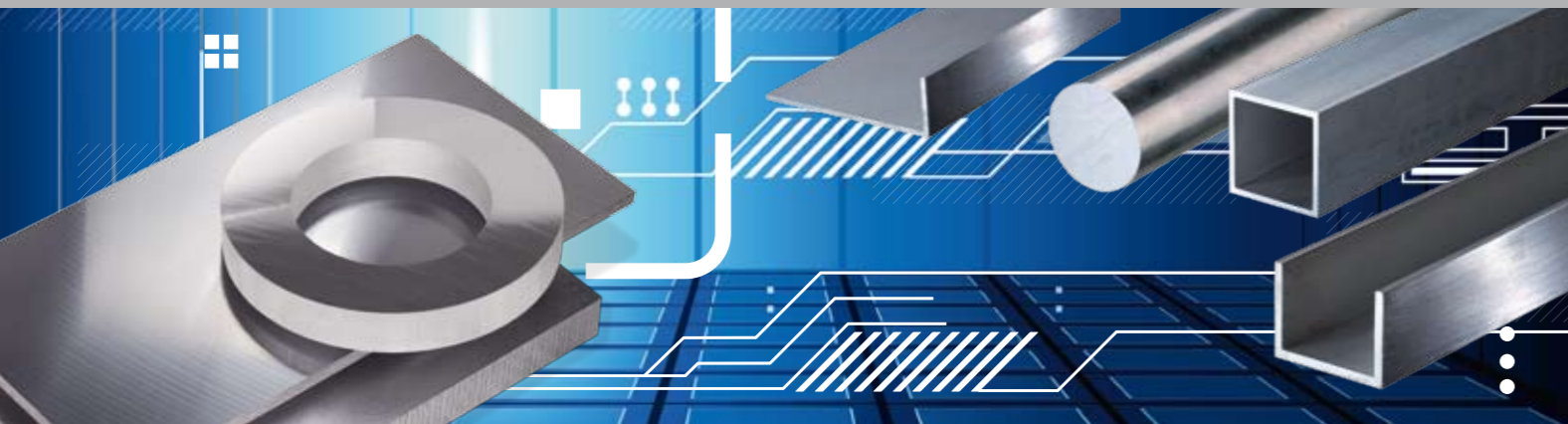
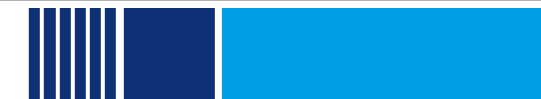
EN 754-2 Mechanical properties: tubes – drawn

Delivery condition ⁵	Wall thickness mm	Tensile strength R_m MPa		Elastic limit $R_{p0.2}$ MPa		Elongation % min.		Hardness ⁹ HBW
		min.	max.	min.	max.	A50 mm	A	
T3	≤ 5	440	-	290	-	8	10	120
	> 5 to ≤ 20	420	-	270	-	8	10	120
⁵	Other possible delivery conditions for this alloy: O, H111, T3510, T3511							
⁹	For information only							

EN 755-2 Mechanical properties: tubes – pressed

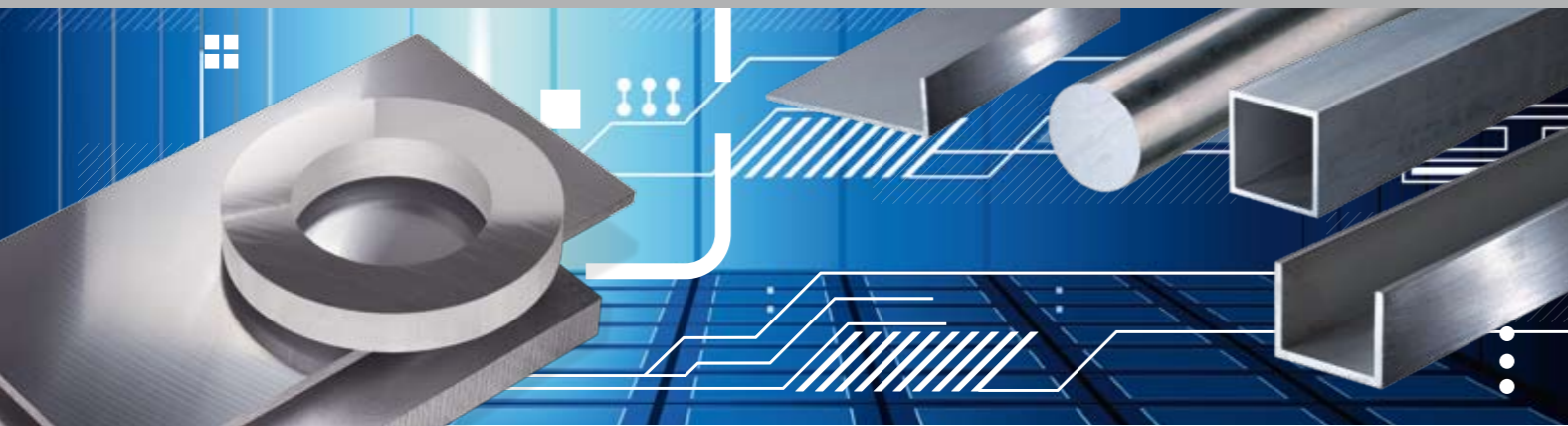
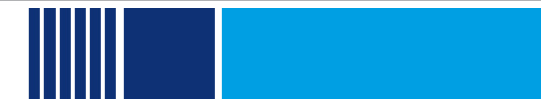
Delivery condition ⁵	Wall thickness mm	Tensile strength R_m MPa		Elastic limit $R_{p0.2}$ MPa		Elongation % min.		Hardness ⁹ HBW
		min.	max.	min.	max.	A50 mm	A	
T3 T3510/T3511	≤ 30	420	-	290	-	6	8	120
⁵	Other possible delivery conditions for this alloy: O, H111, T8, T8510, T8511							
⁹	For information only							

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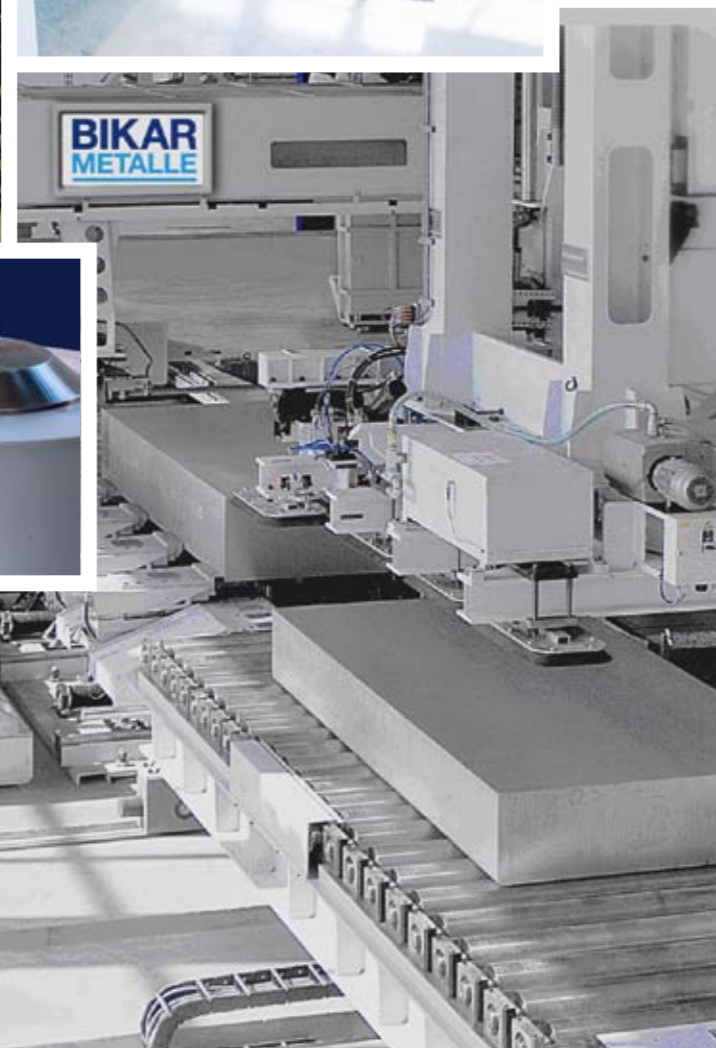
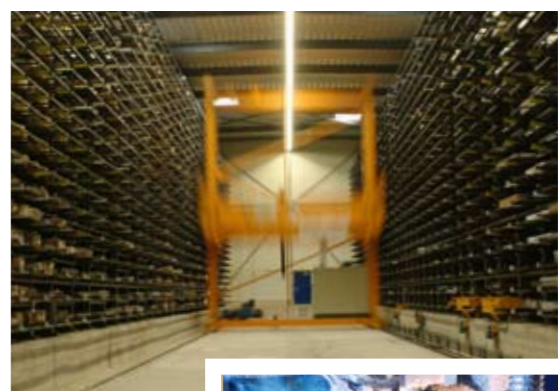
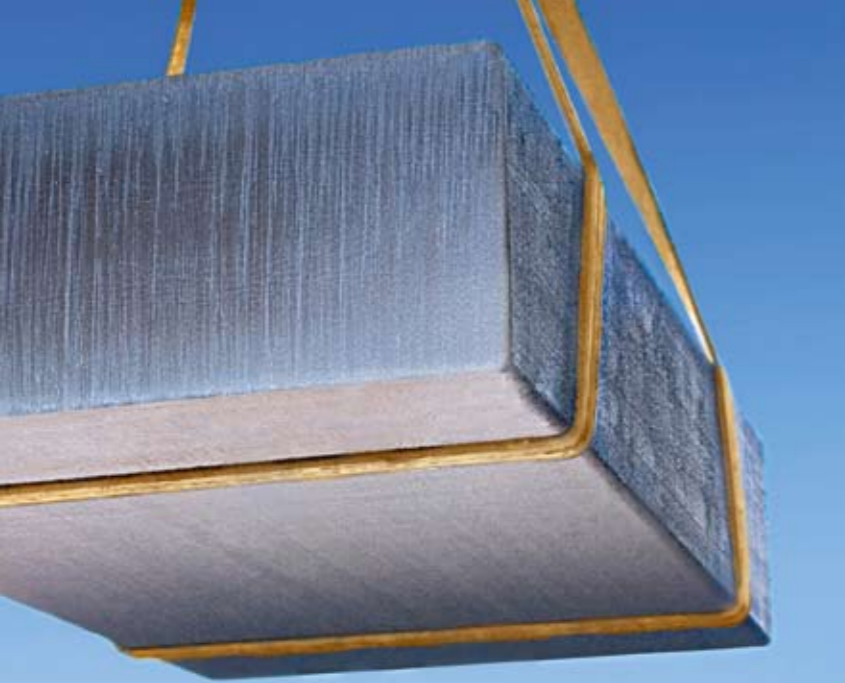
F	Production state (no limit values for mechanical properties defined).
H111	Annealed and slightly work-hardened by subsequent operations, e.g. stretching or adjustment (less than H11).
H112	Slightly work-hardened by hot forming or limited cold forming (with defined limit values of the mechanical properties).
H116	Applies to aluminium-magnesium alloys with a magnesium content > = 4% for which the limit values of the mechanical properties and the resistance to exfoliation corrosion are defined.
H12	Work-hardened - 1/4 hard.
H14	Work-hardened - 1/2 hard.
H16	Work-hardened - 3/4 hard.
H18	Work-hardened - 4/4 hard (fully through-hardened).
H19	Work-hardened - extra hard.
H22	Work-hardened and re-annealed - 1/4 hard.
H24	Work-hardened and re-annealed - 1/2 hard.
H26	Work-hardened and re-annealed - 3/4 hard.
H28	Work-hardened and re-annealed - 4/4 hard (fully through-hardened).
H32	Work-hardened and stabilised - 1/4 hard.
H34	Work-hardened and stabilised - 1/2 hard.
H36	Work-hardened and stabilised - 3/4 hard.
H38	Work-hardened and stabilised - 4/4 hard (fully through-hardened).
H42	Work-hardened and enamelled - 1/4 hard.
H44	Work-hardened and enamelled - 1/2 hard.
H46	Work-hardened and enamelled - 3/4 hard.
H48	Work-hardened and enamelled - 4/4 hard (fully through-hardened).
Hxx4	Applies to embossed or stamped metal sheets or strips, which are produced from the corresponding Hxx state.
Hxx5	Work-hardened - Applies for welded tubes.
O	Soft annealed - With the O state, products can be designated for which the required properties for the soft annealed state are achieved by the hot-forming process.
O1	Thermally treated almost at the solution annealing temperature and time and cooled slowly to room temperature (formerly known as T41).
O2	Thermomechanically treated to improve formability as required for Superplastic Forming (SPF), for example.
O3	Homogenised.
T1	Quenched from the hot forming temperature and naturally aged.
T2	Quenched from the hot forming temperature, cold formed and naturally aged.
T3	Solution annealed, cold formed and naturally aged.
T31	Solution annealed, about 1% cold formed and naturally aged.

T351	Solution annealed, stress relief by controlled stretching (stretching degree: 0.5% to 3% for sheets, 1.5% to 3% for plates, 1% to 3% for rolled or cold reshaped bars, 1% to 5% for forgings or forged and rolled rings) and naturally aged. The products are not readjusted after stretching.
T3510	Solution annealed, stress relief by controlled stretching (stretching degree 1% to 3% for extruded bars, profiles and tubes, 0.5% to 3% for drawn tubes) and naturally aged. The products are not readjusted after stretching.
T3511	As T3510, but slight subsequent readjustment to comply with the specified limits of size allowed.
T352	Solution annealed, stress relief by 1% to 5% permanent upsetting and naturally aged.
T354	Solution annealed, stress relief by cold readjustment in the finisher and naturally aged.
T36	Solution annealed, about 6% cold formed and naturally aged.
T37	Solution annealed, about 7% cold formed and naturally aged.
T39	Solution annealed and a certain degree of cold forming to achieve the specified mechanical properties. Cold forming can be done before or after the natural ageing treatment.
T4	Solution annealed and naturally aged.
T42	Solution annealed and naturally aged. Applies to test materials that are heat-treated from the soft annealed or F state or for products that are heat-treated from any state by the consumer.
T451	Solution annealed, stress relief by controlled stretching (stretching degree: 0.5% to 3% for sheets, 1.5% to 3% for plates, 1% to 3% for rolled or cold reshaped bars, 1% to 5% for forgings or forged and rolled rings) and naturally aged. The products are not readjusted after stretching.
T4510	Solution annealed, stress relief by controlled stretching (stretching degree: 1% to 3% for extruded bars, profiles and tubes, 0.5% to 3% for drawn tubes) and naturally aged. The products are not readjusted after stretching.
T4511	As T4510, but slight subsequent readjustment to comply with the specified limits of size allowed.
T452	Solution annealed, stress relief by 1% to 5% permanent upsetting and naturally aged.
T454	Solution annealed, stress relief by cold readjustment in the finisher and naturally aged.
T5	Quenched from the hot forming temperature and artificially aged.
T51	Quenched from the hot forming temperature and not fully artificially aged to improve malleability.
T56	Quenched from the hot forming temperature and artificially aged - better mechanical properties than T5 by special process control (alloy of 6000 series).
T6	Solution annealed and artificially aged.
T61	Solution annealed and not fully artificially aged to improve malleability.
T6151	Solution annealed, stress relief by controlled stretching (stretching degree: 0.5% to 3% for sheets, 1.5% to 3% for plates) and then not fully artificially aged to improve malleability. The products are not readjusted after stretching.
T62	Solution annealed and artificially aged. Applies to test materials that are heat-treated from the soft annealed or F state or for products that are heat-treated from any state by the consumer.
T64	Solution annealed and then not fully artificially aged to improve malleability (between T6 and T61).
T651	Solution annealed, stress relief by controlled stretching (stretching degree: 0.5% to 3% for sheets, 1.5% to 3% for plates, 1% to 3% for rolled or cold reshaped bars, 1% to 5% for forgings or forged and rolled rings) and artificially aged. The products are not readjusted after stretching.
T6510	Solution annealed, stress relief by controlled stretching (stretching degree 1% to 3% for extruded bars, profiles and tubes, 0.5% to 3% for drawn tubes) and artificially aged. The products are not readjusted after stretching.
T6511	As T6510, but slight subsequent readjustment to comply with the specified limits of size allowed.
T652	Solution annealed, stress relief by 1% to 5% permanent upsetting and artificially aged.
T654	Solution annealed, stress relief by cold readjustment in the finisher and artificially aged.



T66	Solution annealed and artificially aged - better mechanical properties than T6 by special control of the process (alloy of 6000 series).
T7	Solution annealed and overcured (artificially aged).
T73	Solution annealed and overcured (artificially aged) to achieve an optimum resistance to stress corrosion cracking.
T732	Solution annealed and overcured (artificially aged) to achieve an optimum resistance to stress corrosion cracking. Applies to test materials that are heat-treated from the soft annealed or F state or for products that are heat-treated from any state by the consumer.
T7351	Solution annealed, stress relief by controlled stretching (stretching degree: 0.5% to 3% for sheets, 1.5% to 3% for plates, 1% to 3% for rolled or cold reshaped bars, 1% to 5% for forgings or forged and rolled rings) and overcured (artificially aged) to achieve an optimum resistance to stress corrosion cracking. The products are not readjusted after stretching.
T73510	Solution annealed by stress relief by controlled stretching (stretching degree: 1% to 3% for extruded rods, profiles and pipes, 0.5% to 3% for drawn tubes) and overcured (artificially aged) to achieve an optimum resistance to stress corrosion cracking. The products are not readjusted after stretching.
T73511	As T73510, but slight subsequent readjustment to comply with the specified limits of size allowed.
T7352	Solution annealed, stress relief by 1% to 5% permanent upsetting and overcured (artificially aged) to achieve an optimum resistance to stress corrosion cracking.
T7354	Solution annealed, stress relief by cold readjustment in the finisher and overcured (artificially aged) to achieve an optimum resistance to stress corrosion cracking.
T74	Solution annealed and overcured (artificially aged) (between T73 and T76).
T7451	Solution annealed, stress relief by controlled stretching (stretching degree: 0.5% to 3% for sheets, 1.5% to 3% for plates, 1% to 3% for rolled or cold reshaped bars, 1% to 5% for forgings or forged and rolled rings) and overcured (artificially aged) (between T73 and T76). The products are not readjusted after stretching.
T74510	Solution annealed, stress relief by controlled stretching (stretching degree: 1% to 3% for extruded bars, profiles and tubes, 0.5% to 3% for drawn tubes) and overcured (artificially aged) (between T73 and T76). The products are not readjusted after stretching.
T74511	As T74510, but slight subsequent readjustment to comply with the specified limits of size allowed.
T7452	Solution annealed, stress relief by 1% to 5% permanent upsetting and overcured (artificially aged) (between T73 and T76).
T7454	Solution annealed, stress relief by cold readjustment in finisher and overcured (artificially aged) (between T73 and T76).
T76	Solution annealed and overcured (artificially aged) to achieve a good resistance to exfoliation corrosion.
T761	Solution annealed and overcured (artificially aged) to achieve a good resistance to exfoliation corrosion (applies to sheets and strips made of material 7475).
T762	Solution annealed and overcured (artificially aged) to achieve a good resistance to exfoliation corrosion. Applies to test materials that are heat-treated from the soft annealed or F state or for products that are heat-treated from any state by the consumer.
T7651	Solution annealed, stress relief by controlled stretching (stretching degree: 0.5% to 3% for sheets, 1.5% to 3% for plates, 1% to 3% for rolled or cold reshaped bars, 1% to 5% for forgings or forged and rolled rings) and overcured (artificially aged) to achieve a good resistance to exfoliation corrosion. The products are not readjusted after stretching.

T76510	Solution annealed, stress relief by controlled stretching (stretching degree: 1% to 3% for extruded rods, profiles and pipes, 0.5% to 3% for drawn tubes) and overcured (artificially aged) to achieve a good resistance to exfoliation corrosion. The products are not readjusted after stretching.
T76511	As T76510, but slight subsequent readjustment to comply with the specified limits of size allowed.
T7652	Solution annealed, stress relief by 1% to 5% permanent upsetting and overcured (artificially aged) to achieve a good resistance to exfoliation corrosion.
T7654	Solution annealed, stress relief by cold readjustment in the finisher and overcured (artificially aged) to achieve a good resistance to exfoliation corrosion.
T79	Solution annealed and (very limitedly) overcured (artificially aged).
T79510	Solution annealed, stress relief by controlled stretching (stretching degree 1% to 3% for extruded bars, profiles and tubes, 0.5% to 3% for drawn tubes) and (very limitedly) overcured (artificially aged). The products are not readjusted after stretching.
T79511	As T79510, but slight subsequent readjustment to comply with the specified limits of size allowed.
T8	Solution annealed, cold formed and artificially aged.
T81	Solution annealed, about 1% cold formed and artificially aged.
T82	Solution annealed by the consumer stretched in a controlled manner by at least 2% and artificially aged (alloy 8090).
T832	Solution annealed stretched in a controlled manner to a certain degree and artificially aged (applies to drawn tubes made of material 6063)
T841	Solution annealed, cold formed and not fully artificially aged (applies to sheets and strips made of alloys 2091 and 8090).
T84151	Solution annealed, stress relief by controlled stretching with a stretching degree of 1.5% to 3% and not fully artificially aged (plates made of alloys 2091 and 8090).
T851	Solution annealed, stress relief by controlled stretching (stretching degree: 0.5% to 3% for sheets, 1.5% to 3% for plates, 1% to 3% for rolled or cold reshaped bars, 1% to 5% for forgings or forged and rolled rings) and artificially aged. The products are not readjusted after stretching.
T8510	Solution annealed, stress relief by controlled stretching (stretching degree 1% to 3% for extruded bars, profiles and tubes, 0.5% to 3% for drawn tubes) and artificially aged. The products are not readjusted after stretching.
T8511	As T8510, but slight subsequent readjustment to comply with the specified limits of size allowed.
T852	Solution annealed, stress relief by 1% to 5% permanent upsetting and artificially aged.
T854	Solution annealed, stress relief by cold readjustment in the finisher and artificially aged.
T86	Solution annealed, about 6% cold formed and artificially aged.
T87	Solution annealed, about 7% cold formed and artificially aged.
T89	Solution annealed and cold formed to a certain degree to achieve the specified mechanical properties and artificially aged.
T9	Solution annealed, cold formed and artificially aged.
W	Solution annealed (unstable state). The time span of natural ageing can also be specified (W2H. . .).
W51	Solution annealed (unstable state), stress relief by controlled stretching (stretching degree: 0.5% to 3% for sheets, 1.5% to 3% for plates, 1% to 3% for rolled or cold reshaped bars, 1% to 5% for forgings or forged and rolled rings). The products are not readjusted after stretching.
W510	Solution annealed (unstable state) and stress relief by controlled stretching (stretching degree 1% to 3% for extruded bars, profiles and tubes, 0.5% to 3% for drawn tubes). The products are not readjusted after stretching.
W511	As W510, but slight subsequent readjustment to comply with the specified limits of size allowed.
W52	Solution annealed (unstable state) and stress relief by 1% to 5% permanent upsetting.
W54	Solution annealed (unstable state) and stress relief by cold readjustment in the finisher (forgings).



BIKAR METALLE

A COMPANY THAT CAN SIMPLY DO MORE!

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Computer-controlled high bay warehouse for

- Standard plates: Capacity 1,000 containers at 5,000 kg
- Super formats and plain milled plates: Capacity 800 containers at 3,500 kg

Band saws

- Horizontal up to sizes of 6,020 x 3,020 x 1,150 mm
- Vertical up to sizes of 4,020 x 2,300 x 1,150 mm

Buzz saws

- Up to sizes of 6,050 x 6,050 x 170 mm

Blank saws and ring saws

- Up to a diameter of 2,500 mm

Deep hole drilling

- Up to 1,100 mm depth
- Thread up to dia 70 mm

Milling

- Precision surface cutter (portal milling machine) – cutter head dia 2.700 mm
- Up to 6000 x 2,500 x 5-150 mm
- Surface cutter for individual depth up to 1,000 x 800 x 300 mm

Chamfering

- 45° up to about 4 mm chamfer

Usual sawing tolerances

- Band saws (sawing tolerance: +2 to 3/-0 mm)
- Circular blanks according to drawing (sawing tolerance: +8 to 10/-0 mm) - depending on the type of pre-cut part
- Precision circular saws (sawing tolerance according to thickness: +/-0.2 to +/-0.5 mm) up to max. cutting height of 170 mm

Other tolerances by arrangement

OUR DELIVERY PROGRAM

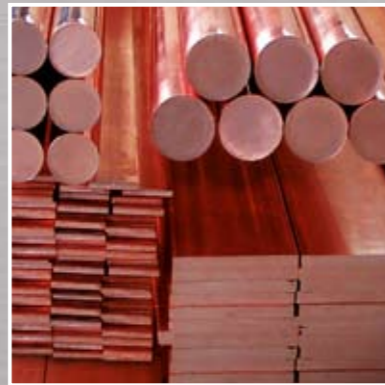
DIVERSITY FROM A SINGLE SOURCE

BIKAR has learned over many decades to adapt to the needs of its customers. And that's reflected in the diversity of our stocked and available products. You can only win with a strong partner.



ALUMINIUM

- Plates
- Sheets
- Bars
- Circular blanks
- Rings
- Profiles
- Cuttings
- Parts from drawings



COPPER

- Plates
- Sheets
- Bars
- Circular blanks
- Rings
- Profiles
- Cuttings
- Parts from drawings



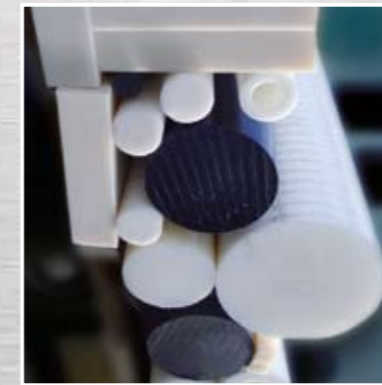
BRASS

- Plates
- Sheets
- Bars
- Circular blanks
- Rings
- Profiles
- Cuttings
- Parts from drawings



BRONZE

- Bars
- Tubes
- Bushings
- Rings
- Circular blanks
- Cuttings
- Parts from drawings



PLASTICS

- Bars
- Tubes
- Bushings
- Cuttings