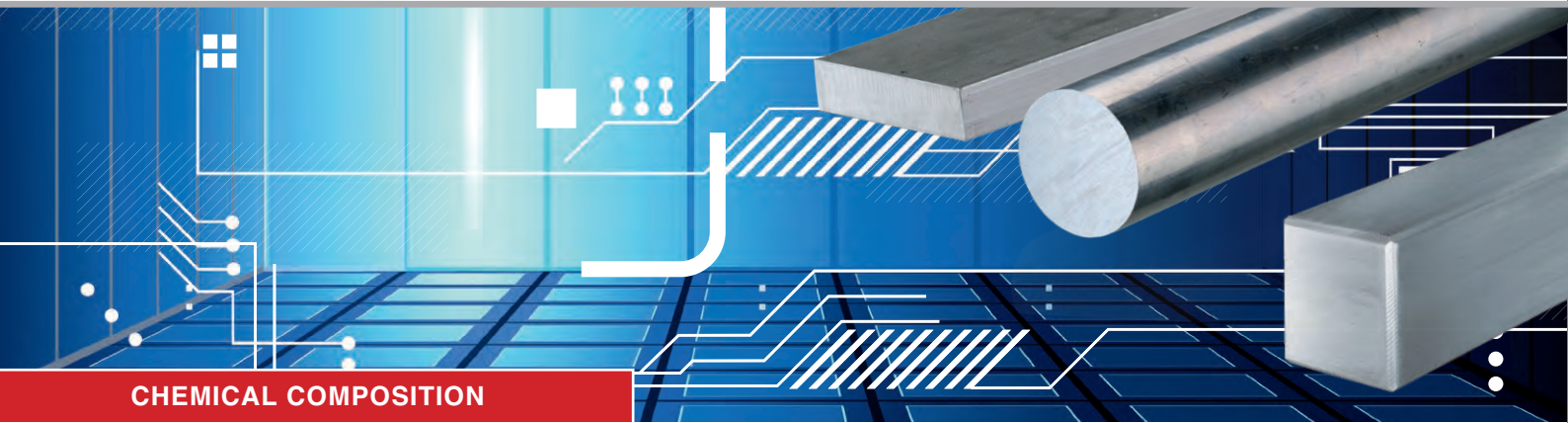


# EN AW - 6026LF



## CHEMICAL COMPOSITION

### Aluminium and aluminium alloy

RoHS - compliant

#### Alloy designation:

EN AW	Al Mg Si Bi
Old designation	-
Material no. according to DIN	
Great Britain BS	
Italy UNI	
Spain	
Sweden	
Norway	
France AFNOR	
Colour code	

#### Typical physical properties:

Density [g/cm <sup>3</sup> ]	2,72	
Elastic modulus [GPa]	69000	
Thermal conductivity [W/m*K]	172	
Thermal expansion coefficient [K <sup>-1</sup> *10 <sup>-6</sup> ]	-50°C – 20°C	
	20°C – 100°C	23,4
	20°C – 200°C	
	20°C – 300°C	
Specific heat J/(kg * K)		
Electrical conductivity [m/Ω*mm <sup>2</sup> ]	26	
Shear modulus [GPa]		

#### Chemical composition\* (EN 573-3):

Specifications in % Remainder: Aluminium											Other	
Si	Fe	Cu	Mn	Mg	Cr	Pb	Zn	Ti	Sn	Bi	Individual	Total <sup>2</sup>
0,60 – 1,4	0,70	0,20 – 0,50	0,20 – 1,00	0,60 – 1,20	0,30	0,01-0,05	0,30	0,20	0,05	0,50 – 1,50	0,05	0,15

<sup>x</sup> Chemical data in %. If no ranges are given, the alloy content has the maximum value.

<sup>2</sup> Includes all listed elements for which no limit values are specified.

Does not contain any substance on the REACH Candidate List (SVHC) above 0.1%. (REACH "Compliant")

#### Special features of this material:

- Very good turning and drilling quality (lead-free cutting alloy)
- Good machinability
- Good decorative anodizing properties
- High strength
- Low tool wear

#### Applications:

- Automotive industry
- Electrical- and electronics industry
- Nuts
- Bolts
- Threaded parts

#### Available forms:

Bars



**Heat treatment:**

Soft annealing / recrystallization annealing	
Annealing temperature	-
Heating up time	-
Cooling conditions	-

Hardening	
Solution annealing	-
Quenching	-
Natural ageing tr.	-
Artificial ageing tr.	-

**Other data:**

**Processing / machinability**

Soft annealed	-
Work - hardened	-
Heat - treated	2
Dimensional stability	-
<b>Erosion</b>	-

**Surface treatment**

Anodizing (protective anodisation)	2
Hard anodizing	1
Anodizing - decorative	2
Painting / coating	2
Polishing	-

**Weldability**

		Filler metal
Gas	-	SG-AlMg5
WIG	-	SG-AlSi
MIG	2	SG-AlMg3
Resistance welding	2	

**Solder**

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

**Corrosion resistance**

In a normal atmosphere / weather conditions	2
Sea water atmosphere	3

**Transform**

Cold forming		Delivery condition
Bending	-	
Pressure forming	-	
Deep drawing (condition-based)	-	
Upsetting (condition-based)	-	
Impact extrusion	-	
Hot forming		
Drop forging	-	
Extrusion moulding	-	
Open die forging	-	

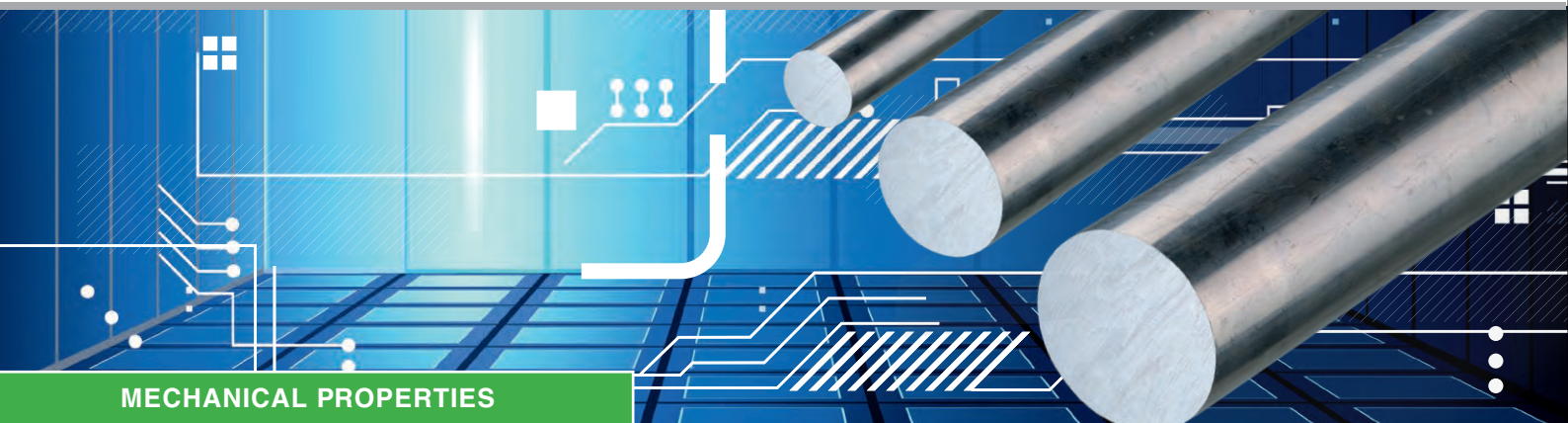
Suitable for food industry according to DIN EN 602	no
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**Legend:**

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

The specifications in our data sheets are subject to correction and are only valid as references. Liability is excluded in this regard. We reserve the right to make changes to the standards and informative values. The agreements of our order confirmation are always authoritative. With regard to anodic oxidisability, we point out that we accept no liability for the anodisation result and the colour formation for decorative applications. The same applies to the corrosion resistance. Special arrangements must be made in writing.

# Bars – round drawn · pressed



## MECHANICAL PROPERTIES

### Aluminium and aluminium alloy

## EN AW-6026LF Al Mg Si Bi

#### EN 754-2 Mechanical properties: round bars - drawn

Delivery condition	Diam. mm	Tensile strength $R_m$ MPa		Elastic limit $R_{p0.2}$ MPa		Elongation % min.		Hardness <sup>9</sup> HBW
		min.	max.	min.	max.	A		
T6	≤ 80	370	-	300	-	8	-	95
T8	≤ 80	345	-	315	-	4	-	95
T9	≤ 80	360	-	330	-	4	-	95
<sup>9</sup>	<i>For information only</i>							

#### EN 755-2 Mechanical properties: round bars - pressed

Delivery condition	Diam. mm	Tensile strength $R_m$ MPa		Elastic limit $R_{p0.2}$ MPa		Elongation % min.		Hardness <sup>9</sup> HBW
		min.	max.	min.	max.	A		
T6, T6510, T6511	≤ 140	370	-	300	-	8	-	95
T6, T6510, T6511	140 > D ≤ 200	340	-	250	-	8	-	90
T6	200 > D ≤ 250	300	-	200	-	8	-	90
<sup>9</sup>	<i>For information only</i>							

#### We supply aluminum round bars of alloy 6026 LF in the following dimensional ranges:

Thickness mm	drawn: 6-76,2	pressed: 30-254
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