

Material data sheet

EN AW 6026 Pb max. 0,4 % Low-lead free-cutting quality

Compliance with the requirements of the EU directives RoHS 2011/65/EU and ELV 2000/53/EC

1) Chemical composition according to DIN EN 573-3 [% by mass, remainder Al]

%	Si	Fe	Cu	Mn	Mg	Zn	Cr	Ti	Bi	Pb	Sn	Each
min.	0.6	-	0.20	0.20	0.60	-	-	-	0.50	-	-	-
max.	1.40	0.70	0.50	1.00	1.20	0.30	0.30	0.20	1.50	0.40	0.05	0.15

2) Mechanical properties according to DIN EN 754-2 drawn / DIN EN 755-2 extruded

Temper	Maße in mm		R _m MPa		R _{p0,2} MPa		A%	HBW	
	D ^a		min.	max.	min.	max.	min.		Typical value
T6	≤60	-	310	-	260	-	8	-	95
T8	≤60	-	345	-	315	-	4	-	95
T9	≤60	-	360	-	330	-	4	-	95
T6	≤150	-	310	-	260	-	8	-	95
T6	150<D≤200	-	260	-	240	-	8	-	90

D^a = Diameter for round rod / S^b = Width across flat for square and hexagonal rod, Thickness for rectangular rod / c Properties may be obtained by press quenching.

Classification: 1=very good / 6=insufficient

Physical properties		General properties			
Density g/cm ³	2.72	Corrosion resistance to atmospheric influences	2	Surface treatment Protection anodizing	2
Modulus of elasticity MPa	69000				
Thermal conductivity W/(m K)	172	Brazeability: Brazeability with flux	ns	Painting/Coating	1
Thermal conductivity W/(m K)	172				
Coefficient of thermal expansion (20-100 °) 10 ⁻⁶ /K	23.4	Friction soldering	ns		
Electrical conductivity MS/m	26			Soft soldering with flux	ns
Weldability		Machining properties			
Gas	ns	Annealed			-
TIG	ns	Work hardened			-
MIG	2	Precipitation hardened			2
Resistance fusion welding	2	Excellent machinability, low tool wear, shiny surface			

Errors and changes excepted/This document is not subject to revision.