

Material data sheet

EN AW 7022 [EN AW-Al Zn5Mg3Cu]

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	Cr	Ni	Zn	Ti	Remarks	Each
min.	-	-	0.50	0.10	2.6	0.10	-	4.3	-	0.20 Ti + Zr	-
max.	0.50	0.50	1.0	0.40	3.7	0.30	-	5.2	-	-	0.15

2) Mechanical properties according to DIN EN 485-2

Temper	Dimensions in mm		R _m Mpa		R _{p0,2} Mpa		A%	A _{50mm} %	HBW
	D ^a	S ^b	min.	max.	min.	max.	min.	min.	Typical value
T6 T651	≥3,0	12,5	450	-	370	-	-	8	133
	12,5	25,0	450	-	370	-	8	-	133
	25,0	50,0	450	-	370	-	7	-	133
	50,0	100,0	430	-	350	-	5	-	127
	100,0	200,0	410	-	330	-	3	-	121

Classification: 1=very good / 6=insufficient

Physical properties		General properties							
Density g/cm ³	2.78	Corrosion resistance to atmospheric influences	4	Surface treatment	2				
Modulus of elasticity MPa	70000					5	Decorative anodizing	6	
Thermal conductivity W/(m K)	130-160	6	Painting/Coating	3					
Coefficient of thermal expansion (20-100 °) 10 ⁻⁶ /K	23.6				Brazeability: Brazing with flux Brazing without flux Friction soldering Soft soldering with flux	6			
Electrical conductivity MS/m	19-23								
Weldability		Machining properties							
Gas	6	Bending							5(O)
TIG	6	Spinning			6				
MIG	6	Deep drawing up to (temper)			6				
Resistance fusion welding	2								

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