

Aluminium Alloy 7075 (EN AW 7075 AlZn5,5MgCu) According to EU directives: 2000/53/CE (ELV) - 2011/65/CE (RoHS II)

- Aluminium-zinc-magnesium-copper alloy.
- This alloy is used for construction of structural parts with high mechanical strength in aerospace and military industry.

		THICKNESS										
		1,5≤3	3≤6	6≤12,5	12,5≤25	25≤50	50≤60	60≤80	80≤90	90≤100	100≤120	120≤150
Physical state		T6 - T651										
Mechanical properties												
Ultimate tensile strength Rm[N/mm ²]	minimal	540	545	540	540	530	525	495	490	460	410	360
Yield strength Rp 0,2	minimal	470	475	460	470	460	440	420	390	360	300	260
Elongation A _s	minimal	7	8	8	6	5	4	4	4	3	2	2
Hardness Brinell HB (information only)	minimal	161	163	160	161	158	155	147	144	135	119	104
Physical properties												
Density [kg/dm ³]		2,81										
Module of elasticity [Gpa]		72										
Electrical conductivity at 20 °C [m/Ω-mm ²]		19										
Coefficient of thermal expansion [10 ⁻⁶ /K]		23,5										
Thermal conductivity [w/m.K]		155										
Melting point range °C		475 ÷ 635										
Processing characteristics												
Machinability		++++										
Dimensional stability		+++										
Erodability		+++++										
Weldability		++										
Polishability		+++++										
Anodizing decorative		++++										
Anodizing hard		++++										
Corrosion resistance (weather)		+++										
Corrosion resistance (seawater)		+										

Legend - Processing Characteristics

Excellent +++++ Good ++++ Acceptable +++ Mediocre ++ Inadequate + Not suitable -

CHEMICAL COMPOSITION

DENOMINATION	Si	Fe	Mn	Mg	Cu	Zn	Cr	Ti	Ni	Pb	Bi	V	Others	IMPURITY	ALUMINIUM
7075	≤0,40	≤0,50	≤0,30	2,10-2,90	1,20-2,00	5,10-6,10	0,18-0,28	≤0,20						0,05	0,15 remainder