

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, auto, motorcycle, bicycle and for hot forging.

	DIAMETER		
	≤ 100	100 ≤ 150	150 ≤ 200
	T6	T6	T6
Physical Properties			
Mechanical Properties			
Ultimate tensile strength Rm [N/mm ²]	minimal	560	550
Yield strength Rp 0,2	minimal	500	440
Elongation A ₅	minimal	7	5
Hardness Brinell HB (information only)	minimal	150	150
Physical properties			
Density [kg/dm ³]	2,81	2,81	2,81
Module of elasticity [Gpa]	72	72	72
Electrical conductivity at 20 °C [m/Ω-mm ²]	43	52	52
Coefficient of thermal expansion [10 ⁻⁶ /K]	23,5	23,5	23,5
Thermal conductivity [w/m.K]	155	130	130
Melting point range °C	480 ÷ 640	480 ÷ 640	480 ÷ 640
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	Sn	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