

**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 strenght in aerospace and military industry, and for hot forging

		DIAMETER	
		≤ 80	
		T6	
Physical Properties			
Mechanical Properties			
Ultimate tensile strenght Rm[N/mm ²]	minimal	540	
Yield strenght Rp 0,2	minimal	485	
Elongation As	minimal	7	
Hardness Brinell HB (information only)	minimal	150	
Physical properties			
Density [kg/dm ³]		2,81	
Module of elasticity [Gpa]		72	
Electrical conductivity at 20 °C [m/Ω-mm ²]		52	
Coefficient of thermal expansion [10 ⁻⁶ /K]		23,5	
Thermal conductivity [w/m.K]		130	
Melting point range °C		480 ÷ 640	
Processing Characteristics			
Machinability		++++	
Dimensional Stability		+++	
Erodability		+++++	
Weldability		++	
Polishability		++++	
Anodizing Decorative		++++	
Anodizing Hard		++++	
Corrosion resistance (weather)		+++	
Corrosion resistance (seawather)		+	

Legend - Processing Characteristics

Excellent +++++ Good ++++ Accettable +++ 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