

Aluminium Alloy 7020 (EN AW 7020 AlZn4,5Mg1)
 According to EU directives: 2000/53/CE (ELV) - 2011/65/CE (RoHS II)

- Aluminium-zinc alloy.
- It is used for for automotive, oleodynamic, and high stressed structures components constructions.
- High mechanical characteristics.

		DIAMETER	
		≤ 50	50 ≤ 200
		T6	T6
Physical Properties			
Mechanical Properties			
Ultimate tensile strenght Rm[N/mm ²]	minimal	350	340
Yield strenght Rp 0,2	minimal	290	275
Elongation As	minimal	8	8
Hardness Brinell HB (information only)	minimal	110	110
Physical properties			
Density [kg/dm ³]		2,78	2,78
Module of elasticity [Gpa]		72	72
Electrical conductivity at 20 °C [m/Ω-mm ²]		18	18
Coefficient of thermal expansion [10 ⁻⁶ /K]		23,5	23,5
Thermal conductivity [w/m.K]		134	134
Melting point range °C		610 ÷ 650	610 ÷ 650
Processing Characteristics			
Machinability		+++	+++
Dimensional Stability		++++	++++
Erodability		++++	++++
Weldability		++++	++++
Polishability		++++	++++
Anodizing Decorative		++++	++++
Anodizing Hard		+++++	+++++
Corrosion resistance (weather)		++++	++++
Corrosion resistance (seawater)		+++	+++

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
7020	≤0,35	≤0,40	0,05-0,50	1,00-1,40	≤0,20	4,00-5,00	0,10-0,35	≤0,05					0,08	0,20 remainder