

Alloy 2017A by Metals Trading Company

conforming to EU directives: 2000/53/CE (ELV) - 2011/65/EU (RoHS II)

Color code EU **GREEN**

PRODUCTION PROGRAM			
Unit:mm			
Drawn	10 ÷ 65	10 ÷ 36	20 ÷ 36
Extruded	20 ÷ 120	20 ÷ 36	20 ÷ 36

Aluminium/aluminum 2017A alloy is a heat treatable wrought alloy with high strength and excellent fatigue strength. Resistance weldability of this alloy are satisfactory while corrosion resistance is fair. Alloy used for various applications from high strength structural components, aircraft, machine construction, military equipment, rivets.

CHEMICAL COMPOSITION

Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Zr+Ti	Pb	Bi	Other	Al
0.20÷0.80	≤0.70	3.5÷4.5	0.40÷1.0	0.40÷1.0	≤0.1		≤0.25	≤0.25			Each 0.05 Total 0.15	Remainder

PHYSICAL PROPERTIES

Density	$\frac{\text{Kg}}{\text{dm}^3}$	2.79
Modules of elasticity	MPa	75.000
Coefficient of thermal expansion	$\frac{\times 10^{-6}}{^{\circ}\text{C}}$	23.6
Thermal conductivity at 20°C	$\frac{\text{W}}{\text{mk}}$	134
Typical electrical resistivity at 20°C	$\frac{\Omega\text{mm}^2}{\text{m}}$	0.051

MECHANICAL PROPERTIES

	Temper	Diam mm	Rm Mpa	Rp Mpa	A%	HBW Typical
Drawn	T3	≤80	400	250	10	105
	T351	≤80	400	250	8	105
Extruded	T4,T4510,T4511	≤75	400	270	10	105
	T4,T4510,T4511	75<D≤150	390	260	9	105
	T4,T4510,T4511	150<D≤200	370	240	8	105
	T4,T4510,T4511	200<D≤250	360	200	7	105

PROPERTIES	T3/T4			
Mechinability				
Protective anodizing				
Decoratice anodizing				
Hard anodizing				
Resistance to atmospheric corrosion				
Resistance to marine corrosion				
MIG-TIG weldability				
At resistance weldability				
Brazing weldability				
Plastic farmability when cold				
Plastic farmability when hot				

Legend

Excellent

Good

Acceptable

Not recommended

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