

# Alloy 2007, 2030 by Metals Trading Company

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

Color code EU **BLACK**

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

Alloys AA2030 and 2007 are alloys for high speed automatic lathes. This alloy is the most often selected when it is required to have a good combination of machinability and high mechanical properties. It has low corrosion resistance. Both alloys have been developed for use in automotive industries. Main applications: screws, bolts, nuts, threaded bars.

## CHEMICAL COMPOSITION


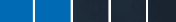
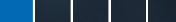
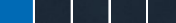
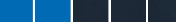
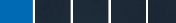
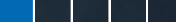
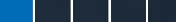
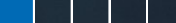
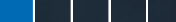
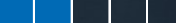
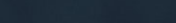


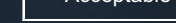
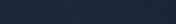





Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Pb	Bi	Other	Al
2007	≤0.8	≤0.8	3.3+4.6	0.5+1	0.4+1.8	≤0.1	≤0.2	≤0.8	≤0.2	0.8+1	≤0.2	Each 0.1 Total 0.3	Remainder
2030	≤0.8	≤0.7	3.3+4.5	0.2+1	0.5+1.3	≤0.1	≤0.2	≤0.5	≤0.2	0.8+1	≤0.2	Each 0.1 Total 0.3	Remainder

## PHYSICAL PROPERTIES

Density	$\frac{\text{Kg}}{\text{dm}^3}$	2.85
Modules of elasticity	MPa	71.000
Coefficient of thermal expansion	$\frac{\times 10^{-6}}{^{\circ}\text{C}}$	23.5
Thermal conductivity at 20°C	$\frac{\text{W}}{\text{mk}}$	140
Typical electrical resistivity at 20°C	$\frac{\Omega\text{mm}^2}{\text{m}}$	0.057

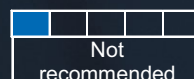
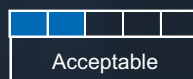
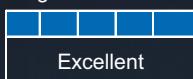
## MECHANICAL PROPERTIES

	Temper	Diam mm	Rm Mpa	Rp Mpa	A%	HBW Tipical
Drawn	T3	≤30	370	240	7	95
	T3	30<D≤80	340	220	6	95
	T351	≤80	370	240	5	95
Extruded	T4,T4510,T4511	≤80	370	250	8	95
	T4,T4510,T4511	80<D≤200	340	220	8	95
	T4,T4510,T4511	200<D≤250	330	210	7	95

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



Legend



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