

# Aluminium alloy AA 2030/EN AW 2030 and AA 2007/EN AW 2007



## Conforming to ELV(2000/53/EC)

Alloys AA 2030/EN AW 2030 and AA 2007/EN AW 2007 are developed specifically for machining applications, conform to ELV and renowned for good machining characteristics and mechanical properties. Lead content less than 1% and no other prohibited elements. AA2030 and 2007 alloys are direct replacement for 2030 and 2007 -classic, retains all the technological properties of the original alloys. Both alloys have been developed for use in automotive industries.



### Chemical Composition AA 2030/EN AW 2030 and AA 2007/EN AW 2007

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Each	Total	Other	Additional
AA 2030 EN 573-3	max. 0.80	max. 0.70	3.30 4.50	0.20 1.00	0.50 1.00	max. 0.10	max. 0.50	max. 0.20	0.80 1.00	max. 0.05	max. 0.15	Bi=max. 0.2	
AA 2007 EN 573-3	max. 0.80	max. 0.80	3.30 4.60	0.50 1.00	0.40 1.80	max. 0.10	max. 0.80	max. 0.20	0.80 1.00	max. 0.05	max. 0.15	Bi=max. 0.2 Ni=max. 0.2 Sn=max. 0.2	

### Mechanical properties AA 2030/EN AW 2030 and AA 2007/EN AW 2007

#### Cold Drawn EN 754-2

Temper	Dimension		Rm min.		Rp <sub>0.2</sub> min.		A	A (2")	HB min.
	mm	inch (")	MPa	ksi	MPa	ksi	% min.		
<b>T3, T351</b>	7 to 30	0.275 to 1.181	370	54	240	35	7	7	100
<b>T3, T351</b>	30 to 76.20	1.181 to 3	340	50	220	32	6	6	90

#### Extruded EN 755-2

Temper	Dimension		Rm min.		Rp <sub>0.2</sub> min.		A	A (2")	HB min.
	mm	inch (")	MPa	ksi	MPa	ksi	% min.		
<b>T4, T4510, T4511</b>	20 to 80	0.788 to 3.149	370	54	250	36	8	8	100
<b>T4, T4510, T4511</b>	80 to 180	3.149 to 7.087	340	50	220	32	8	8	90

### Comparative Characteristics AA 2030/EN AW 2030 and AA 2007/EN AW 2007

Temper	Corrosion resistance		Cold workability	Anodizing Response	Brazeability	Weldability	
	General	Stress				Gas	Arc
<b>T3</b>	●	●●	●●●	●●●	●	●	●●●
<b>T351</b>	●	●●●	●●●	●●●	●	●	●●
<b>T4, T4510, T4511</b>	●	●●	●●●	●●●	●	●	●●●

Rating: ●●●● - Excellent | ●●● - Good | ●● - Fair | ● - Poor



### Physical Properties AA 2030/EN AW 2030 and AA 2007/EN AW 2007

Density (g/cm <sup>3</sup> )	2.82
Modulus of elasticity (MPa)	73640
Thermal conductivity (W/m K)	130-160
Coefficient of thermal expansion (25-100°) 10 <sup>-6</sup> /K	23.0
Electrical conductivity at 20°C (MS/m)	18-22 (31%-40% IACS)