Aluminium alloy EN AW 6026

Conforming to ELV (2000/53/EC) and RoHS II (2011/65/EU)

Alloy EN AW 6026 is developed specifically for machining applications, conform to ELV and RoHS and renowned for good machining characteristics and excellent anodizing response. Lead content less then 0.4 % and no other prohibited elements is used for automotive brake components, hydraulic valve blocks and many other applications. EN AW 6026 alloy is a direct replacement for 6012 and 6262 -classic, retains all the technological properties of the original 6012 and 6262.

Chemical Composition EN AW 6026 conforming to ELV and RoHS

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Each	Total	Other
EN AW 6026 EN 573-3	0.6 1.4	max. 0.70	0.2 0.50	0.20 1.00	0.60 1.20	max. 0.30	max. 0.30	max. 0.20	max. 0.40	max. 0.05	max. 0.15	Bi=0.5-1.50 Sn=max. 0.05

Mechanical Properties EN AW 6026 conforming to ELV and RoHS

Cold Drawn EN 754-2

Temper	Dimension		Rm min.		$Rp_{0.2}$ min.		A	A (2")	HB min.
	mm	inch (")	MPa	ksi	MPa	ksi	% min.		
T6	5.55 to 76.2	0.218 to 3	370	54	300	44	8	5	95
T8	5.55 to 76.2	0.218 to 3	345	50	315	46	4	5	95
T9	5.55 to 76.2	0.218 to 3	360	52	330	48	4	5	95

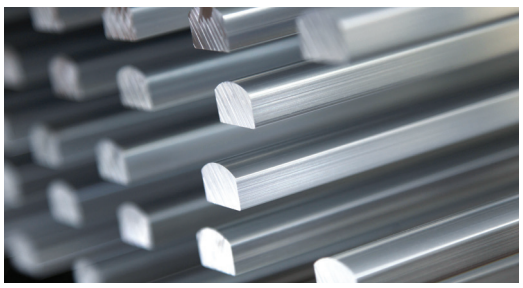
Extruded EN 755-2

Temper	Dimension		Rm min.		$Rp_{0.2}$ min.		A	A (2")	HB min.
	mm	inch (")	MPa	ksi	MPa	ksi	% min.		
T6, T6510, T6511	20 to 140	0.788 to 5.511	370	54	300	44	8	8	95
	140.01 to 180	5.512 to 7.086	340	49	250	36	8	8	90

Comparative Characteristics EN AW 6026 conforming to ELV and RoHS

Temper	Corrosion resistance		Cold workability	Anodizing Response	Brazeability	Weldability	
	General	Stress				Gas	Arc
T6, T8, T9	●●●	●●●●	●●●	●●●●	●●●	●●●	●●●
T6, T6510, T6511	●●●	●●●●	●●●	●●●●	●●●	●●●	●●●

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



Physical Properties EN AW 6026 conforming to ELV and RoHS

Density (g/cm³)	2.73
Modulus of elasticity (MPa)	69640
Thermal conductivity (W/m K)	172
Coefficient of thermal expansion (25-100°) 10^{-6} /K	23.4
Electrical conductivity at 20°C (MS/m)	26 (45% IASC)

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