

Aluminium Alloy 1050 (EN AW 1050A Al99,5)
 According to EU directives: 2000/53/CE (ELV) - 2011/65/CE (RoHS II)

- Aluminium 99,5 % alloy.
- Low mechanical resistance alloy.
- The typical application are in chemical industry, food, HVAC, packaging machinery, electrical conductors.

		THICKNESS					
		0,5≤1,5	0,5≤1,5	1,5≤3	1,5≤3	3≤6	6≤12,5
		H24	H18	H24	H18	H24	H24
Physical state							
Mechanical properties							
Ultimate tensile strenght Rm[N/mm ²]	minimal	105	140	105	140	105	105
Yield strenght Rp 0,2	minimal	75	120	75	120	75	75
Elongation A _s	minimal	4	2	5	2	8	8
Hardness Brinell HB (information only)	minimal	20	20	20	20	20	20
Physical properties							
Density [kg/dm ³]		2,71					
Module of elasticity [Gpa]		70					
Electrical conductivity at 20 °C [m/Ω-mm ²]		28					
Coefficient of thermal expansion [10 ⁻⁶ /K]		24					
Thermal conductivity [w/m.K]		222					
Melting point range °C		650 ÷ 658					
Processing characteristics							
Machinability		+					
Dimensional stability		++					
Erodability		++					
Weldability		++++					
Polishability		++++					
Anodizing decorative		+++					
Anodizing hard		-					
Corrosion resistance (weather)		+++					
Corrosion resistance (seawather)		+++					

Legend - Processing Characteristics

Excellent +++++ Good ++++ Accettable +++ Mediocre ++ Inadequate + Not suitable -

CHEMICAL COMPOSITION

DENOMINATION	Si	Fe	Mn	Mg	Cu	Zn	Cr	Ti	Ni	Pb	Bi	V	Others	IMPURITY	ALUMINIUM
1050A	0,25	0,40	0,05	0,05	0,05	0,07		0,05						0,03	99,5