

Aluminium

99.5% Pure / 1050A

Version 3

Symbol	Number	Element	Si	Fe	Cu	Mn	Mg	Zn	Ti	Al	Density g/cm ³
99.5	1050A	Min %	-	-	-	-	-	-	-	-	2.64
		Max %	0.25	0.40	0.05	0.05	0.05	0.07	0.05	99.50	

Aluminium wire is manufactured in both flat and round form. Chaplin Bros has been producing large quantities of high specification flat aluminium wire for numerous applications for many years and has a high capacity available to meet customer demands.

Physical Properties			
Condition	Min N/mm ²	Max N/mm ²	Elongation %
O	-	95	30
H12	90	130	7
H14	100		5
H16	120	-	3
H18	140	-	3

Physical Properties:

- Resistivity: 0.0270 ($\Omega \times \text{mm}^2/\text{m}$)
- Elongation at soft temper: >30 %

Tolerances:

<0.25mm	±0.005mm
0.25-0.50mm	±0.008mm
0.50-1.00mm	±0.012mm
1.00-2.00mm	±0.02mm
2.00-4.00mm	±0.03mm

Typical applications:

- Brush wire
- Medical / PPE face masks
- Resistance wire



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