

## AlMg5 / 5019 / 5356

Version x

Symbol	Number	Element	Si	Fe	Cu	Mn	Mg	Zn	Al	Density g/cm <sup>3</sup>
AlMg5	5019	Min %	-	-	-	-	-	-	-	2.64
		Max %	0.30	0.45	0.05	0.15	4.5-5.6	0.2	Bal	

Aluminium wire is manufactured in both flat and round form. Flat wires are mainly manufactured in AlMg5 alloy on order to provide the extra tensile strength that 5% magnesium gives. 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 <sup>2</sup>	Max N/mm <sup>2</sup>	Elongation %
O	-	330	17
H14	325	385	3
H16	350	400	2
H18	390	-	2

### Physical Properties:

- Resistivity: 0.0526 ( $\Omega \times \text{mm}^2/\text{m}$ )
- Elongation at soft temper: >15%

### Tolerances:

<0.25mm	$\pm 0.005\text{mm}$
0.25-0.50mm	$\pm 0.008\text{mm}$
0.50-1.00mm	$\pm 0.012\text{mm}$
1.00-2.00mm	$\pm 0.02\text{mm}$
2.00-4.00mm	$\pm 0.03\text{mm}$

### Typical applications:

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



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