## MECHANICAL PROPERTIES OF ALUMINIUM ALLOYS:

<table>
<thead>
<tr>
<th>ALLOY</th>
<th>TEMPER</th>
<th>TENSILE STRENGTH (MPa)</th>
<th>ELONGATION % MINIMUM (50 MM GAUGE LENGTH)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MIN</td>
<td>MAX</td>
<td>0.50-0.80 mm</td>
</tr>
<tr>
<td>1050</td>
<td>0</td>
<td>55</td>
<td>95</td>
</tr>
<tr>
<td>1050</td>
<td>H12</td>
<td>75</td>
<td>110</td>
</tr>
<tr>
<td>1050</td>
<td>H14</td>
<td>105</td>
<td>145</td>
</tr>
<tr>
<td>1050</td>
<td>H16</td>
<td>120</td>
<td>160</td>
</tr>
<tr>
<td>1050</td>
<td>H18</td>
<td>140</td>
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</tr>
<tr>
<td>1100/1200</td>
<td>0</td>
<td>75</td>
<td>105</td>
</tr>
<tr>
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<td>H12</td>
<td>95</td>
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<td>H14</td>
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<td>H16</td>
<td>130</td>
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</tr>
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<td>H18</td>
<td>150</td>
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</tr>
<tr>
<td>3003/3103</td>
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<td>95</td>
<td>130</td>
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<td>120</td>
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<td>H16</td>
<td>165</td>
<td>205</td>
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<td>3003/3103</td>
<td>H18</td>
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<td>H18</td>
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CHEMICAL COMPOSITION OF ALUMINIUM ALLOYS:

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<tr>
<th>CHEMICAL COMPOSITION LIMITS (%)</th>
<th>1050</th>
<th>1100</th>
<th>1200</th>
<th>3003</th>
<th>3103</th>
<th>3105</th>
<th>5005</th>
<th>8011</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Si</td>
<td>0.25</td>
<td>0.90 (Si+Fe)</td>
<td>1.00 (Si+Fe)</td>
<td>0.60</td>
<td>0.50</td>
<td>0.60</td>
<td>0.30</td>
<td>0.60-0.95</td>
</tr>
<tr>
<td>% Fe</td>
<td>0.40</td>
<td>0.70</td>
<td>0.70</td>
<td>0.70</td>
<td>0.70</td>
<td>0.70</td>
<td>0.60-0.95</td>
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<tr>
<td>% Cu</td>
<td>0.05</td>
<td>0.05-0.20</td>
<td>0.05</td>
<td>0.05-0.20</td>
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<td>0.30</td>
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<tr>
<td>% Mn</td>
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<td>0.05</td>
<td>0.05</td>
<td>1.00-1.50</td>
<td>0.80-1.50</td>
<td>0.30-0.80</td>
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<tr>
<td>% Mg</td>
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<td>--</td>
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<td>0.20-0.80</td>
<td>0.50-1.10</td>
<td>0.10</td>
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<tr>
<td>% Cr</td>
<td>--</td>
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<td>0.20</td>
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<td>% Ti (Others)</td>
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<td>0.03</td>
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<td>0.05</td>
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<tr>
<td>Total (Others)</td>
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<tr>
<td>% Al</td>
<td>99.50 (Min)</td>
<td>99.00 (Min)</td>
<td>99.00 (Min)</td>
<td>Remainder</td>
<td>Remainder</td>
<td>Remainder</td>
<td>Remainder</td>
<td>98.00 (Min)</td>
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Single number indicates maximum content.

CHARACTERISTICS OF ALUMINIUM ALLOYS:

<table>
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<tr>
<th>ALLOY</th>
<th>Corrosion Resistance</th>
<th>Anodizing</th>
<th>Formability</th>
<th>Machinability</th>
<th>Weldability</th>
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<tbody>
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<td>Very Good</td>
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<tr>
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<tr>
<td>8011</td>
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</table>