## Material:
Alu-Alloy 3003 (AlMnCu)

## Corrosion protection:
circonium oxide coated

### Mechanical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit</th>
<th>Test method</th>
<th>Typical values</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td></td>
<td></td>
<td>ECM 3.2-130</td>
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<td>-</td>
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<td>ECM 4.8-77</td>
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<td>ECM 6.4-60</td>
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<td>ECM 6.4-82</td>
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<td>ECM 9.6-41</td>
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<td>ECM 9.6-55</td>
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<td>ECM 12.7-42</td>
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<td>ECM 19.2-29</td>
</tr>
</tbody>
</table>

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<th>Property</th>
<th>Unit</th>
<th>Test method</th>
<th>Typical values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foil Thickness</td>
<td>µm</td>
<td>ECP 231-04</td>
<td>60 60 60 60 80 60 80 80 80</td>
</tr>
<tr>
<td>Cell Size, Nominal</td>
<td>mm</td>
<td>DIN 29970</td>
<td>3.2 4.8 6.4 6.4 9.6 9.6 12.7 19.2</td>
</tr>
<tr>
<td>Density, Nominal</td>
<td>kg/m³</td>
<td>DIN 29970</td>
<td>130 77 60 82 41 55 42 29</td>
</tr>
<tr>
<td>Compression Strength Unstab.</td>
<td>N/mm²</td>
<td>DIN 53291</td>
<td>7.00 3.94 2.96 4.25 1.73 2.24 1.00 0.69</td>
</tr>
<tr>
<td>Compression Strength Stab.</td>
<td>N/mm²</td>
<td>DIN 53291</td>
<td>- - 3.55 4.50 - 2.75 - -</td>
</tr>
<tr>
<td>Crush strength</td>
<td>N/mm²</td>
<td>NHTSATP-24-214D-02**</td>
<td>3.380 1.679 - 1.665 0.574 0.891 - 0.263</td>
</tr>
<tr>
<td>Plate Shear Strength/ L-Dir.</td>
<td>N/mm²</td>
<td>DIN 53294</td>
<td>4.00 2.29 1.72 2.40 1.13 1.48 1.00 0.66</td>
</tr>
<tr>
<td>Plate Shear Modul/ L-Dir.</td>
<td>N/mm²</td>
<td>DIN 53294</td>
<td>550 456 370 430 227 253 193 201</td>
</tr>
<tr>
<td>Plate Shear Strength/ W-Dir.</td>
<td>N/mm²</td>
<td>DIN 53294</td>
<td>2.50 1.52 0.95 1.40 0.60 0.88 0.46 0.32</td>
</tr>
<tr>
<td>Plate Shear Modul/ W-Dir.</td>
<td>N/mm²</td>
<td>DIN 53294</td>
<td>350 265 166 220 98 170 87 54</td>
</tr>
<tr>
<td>Service Temperature</td>
<td>°C</td>
<td>-</td>
<td>-55°C up to 177°C</td>
</tr>
</tbody>
</table>

**Micro-Perforated:** All Honeycomb ECM core types can be delivered, if required, as micro-perforated

**Honeycomb:** Aluminum core types ECM-P

* Thickness of test sheet: 15.87 mm
** Thickness of test sheet: 25.40 mm