**General overview & application**

- Medium mechanical properties
- Very good machinability with short chips, excellent surface quality after machining
- Good weldability and also corrosion resistance
- Very good anodising response
- Applied in automotive and electrical industry (brake pistons, hydraulic parts etc.)
- Conforms to the EC Directive 2000/53/EC
- Fully RoHS compliant with Pb ≤ 0,1% (EU regulation 2018/740/EU as of May 2021)

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**Product range**

<table>
<thead>
<tr>
<th>Product</th>
<th>Dimension (mm)</th>
<th>Min.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Round (mm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drawn</td>
<td>6-80</td>
<td>20-125</td>
<td>200-6400</td>
</tr>
<tr>
<td>Extruded</td>
<td>13-80</td>
<td>15-85</td>
<td>200-14400</td>
</tr>
<tr>
<td>Hexagonal (mm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shaped (mm)</td>
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<td></td>
<td></td>
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<tr>
<td>Profiles (mm³)</td>
<td></td>
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</tr>
</tbody>
</table>

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**Chemical composition** (Weight %)

- Si: 0.40 - 0.9
- Fe: -
- Cu: 0.30 - 0.9
- Mn: -
- Mg: 0.35 - 1.2
- Cr: -
- Zn: 0.15 - 0.20
- Sn: 1.5 - 1.5

**Remarks**

- Ti max. 0.15
- Others: each: 0.05 / total: 0.15

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**Mechanical properties**

- Extruded bars (T6)
- Cold drawn bars (T8)

**Processing properties**

- Machinability
- Machining index (chips #/100g) 6000
- MIG-TIG weldability
- Resistance fusion weldability
- Soft soldering & brazing

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**Protective anodising**

- Hard anodising

**Corrosion**

- Corrosion resistance @ sea water
- Corrosion resistance @ atmosphere
- Corrosion depth ISO 11846B (µm)

**Physical properties**

- Density 2.71 g/cm³
- Young's modulus of elasticity 68000 MPa
- Shear modulus 25500 MPa
- Coeff. of thermal expansion (20-100°C) 23.4 x10⁻⁶/°C
- Thermal conductivity at 20°C 170-220 W/m*K
- Specific heat capacity 885 J/kg*K
- Electrical conductivity at 20°C 24-32 MS/m

Legend:
- Excellent
- Good
- Acceptable
- Conditional
- Not recommended