**Designation**

Diehl Metall 013 (ECOMERICA)

**Composition (mass as %, reference values)**

<table>
<thead>
<tr>
<th>Element</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cu</td>
<td>60.5</td>
</tr>
<tr>
<td>Pb</td>
<td>&lt; 0.2</td>
</tr>
<tr>
<td>Zn</td>
<td>remainder</td>
</tr>
</tbody>
</table>

**Applications**

- Stamping and coining brass with good hot formability.
- Suitable for bending, riveting, upsetting and flanging.
- Applications: hot stamped parts, fittings and lock parts.

**Physical properties**

- Density: 8.4 g/cm³
- Coefficient of linear thermal expansion: 20 – 200 °C: 10⁻⁶/K

**Processing properties**

- Machinability (CuZn39Pb3 = 100%): not very suitable
- Hot formability: good (650 – 760 °C)
- Cold formability: moderate

**Heat treatment**

- Soft annealing: 450 – 600 °C
- Stress relief annealing: 250 – 350 °C

**Corrosion resistance**

Generally good resistance to neutral, alkaline and organic aqueous solutions.