High Purity Metals

Features of High Purity Metals

1) Improvement in conductivity
2) Improvement in corrosion resistance
3) Improvement in processing characteristics (brittleness, ductility)
4) Improvement in controllability by additional elements (magnetic properties, oxidation resistance, mechanical property)
5) Suppression of alpha emissions
6) Larger crystal grains
7) Lowering the crystallization temperature

9N-Cu
Product list

- 22 elements and more are available. Please ask us for details.
- The Purity is from 4N to 9N.
- 2x2x2mm cubes for the standard shape.
- Custom-made shapes are also available (Please ask us for details).
- Certificate of Analysis based of GDMS attached to every shipment.
Examples of impurities (Cu)

6N-Cu, 9N-Cu

<table>
<thead>
<tr>
<th>Inclusions</th>
<th>6N</th>
<th>9N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fe</td>
<td>0.002~0.03</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Ni</td>
<td>0.001~0.01</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Ag</td>
<td>0.1~0.3</td>
<td>&lt;0.005</td>
</tr>
<tr>
<td>Al</td>
<td>0.004~0.06</td>
<td>&lt;0.005</td>
</tr>
<tr>
<td>Se</td>
<td>&lt;0.01~0.2</td>
<td>&lt;0.005</td>
</tr>
<tr>
<td>Si</td>
<td>0.05</td>
<td>&lt;0.005</td>
</tr>
<tr>
<td>Sb</td>
<td>&lt;0.02</td>
<td>&lt;0.005</td>
</tr>
<tr>
<td>As</td>
<td>&lt;0.005</td>
<td>&lt;0.005</td>
</tr>
<tr>
<td>Pb</td>
<td>&lt;0.001</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>S</td>
<td>0.01</td>
<td>&lt;0.005</td>
</tr>
</tbody>
</table>

Characteristics of Cu

- Higher reliability: Our Cu targets is made 6N-Cu.
- The highest purity for Cu is 9N (99.9999999%)
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