Manufacturing program

Last update: 25th March 2018

The following table gives an overview of the standard reel-to-reel electro-plating program at IONICS. For other requests, please do not hesitate to contact us.

<table>
<thead>
<tr>
<th>Metal</th>
<th>Substrates</th>
<th>Plating</th>
<th>Underlayer</th>
<th>Full plating</th>
<th>Selective immersion</th>
<th>Strip plating</th>
<th>Spot plating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel</td>
<td>coppery, ferrous</td>
<td>Nickel</td>
<td>Nickel</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tin</td>
<td>coppery, ferrous</td>
<td>Tin bright</td>
<td>Nickel/Copper</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gold</td>
<td>coppery, ferrous</td>
<td>Gold</td>
<td>Nickel/Copper</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Silver</td>
<td>coppery, ferrous</td>
<td>Silver (+ anti-tranish)</td>
<td>Nickel/Copper</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Full plating**
This technique requires that the strip is completely submerged in the electrolytes.

**Selective immersion plating**
The strip is partially plated during the process by means of a dipping depth control.

**Strip plating**
This technique allows applying stripes on solid and stamped strips.

**Spot plating**
This technique allows depositing repeatable, 2-dimensional gold-structures, on one side or both sides of solid and stamped strips.

**Dimensions**

Maximum height: 90 mm (+ 10 mm)
Minimum thickness: 0.3 mm

**Remark**

The data of the present technical data sheet are not contractual and may be amended in line with technological progress relating to the product.