P5™ – Soft Soldering Alloy

Johnson Matthey’s P5™ is a 5% silver-tin soft soldering alloy. Like P40™ this alloy is lead free. P5™ has excellent soldering characteristics and offers a number of advantages over conventional tin-lead alloys. It provides improved strength characteristics particularly where service at moderately elevated temperatures is a factor. P5™ is a good colour match on stainless steel and the resulting joints are not prone to interfacial (crevice) corrosion.

Composition: 5% Ag, 95% Sn
Melting range: 221-235˚C

Uses for This Product

P5™ may be used in the same types of applications as the more commonly specified P40™. For example, it has been used in food handling equipment, in plumbing installations, for components carrying water and for stainless steel parts.

Conditions for Use

With the correct choice of flux this alloy will join copper and copper alloys, carbon steels and stainless steels. A suitable flux should be selected from the list below.

<table>
<thead>
<tr>
<th>Flux Type</th>
<th>Recommended for use on</th>
<th>Corrosive/Non-corrosive</th>
<th>Working Range °C</th>
<th>Product Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soft Solder Flux No. 1S™</td>
<td>Carbon steel / stainless steel</td>
<td>Corrosive Non-corrosive</td>
<td>350°C</td>
<td>1 litre container</td>
</tr>
<tr>
<td>Soft Solder Flux No. 2S™</td>
<td>Copper / brass</td>
<td>Corrosive Non Corrosive</td>
<td>350°C</td>
<td>0.5 litre container</td>
</tr>
<tr>
<td>Soft Solder Flux No. 3S™</td>
<td>Copper / brass / carbon steel Stainless steel</td>
<td>Corrosive</td>
<td>350°C</td>
<td>1kg container</td>
</tr>
</tbody>
</table>

Product Availability

Special order only

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