TECHNICAL INFORMATION SHEET

HARRIS 0HHP BRAZING FILLER METAL

NOMINAL CHEMICAL COMPOSITION%:

<table>
<thead>
<tr>
<th>Element</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper</td>
<td>Remainder</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>7.50</td>
</tr>
<tr>
<td>Other (Total)</td>
<td>0.15</td>
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</tbody>
</table>

TYPICAL PHYSICAL PROPERTIES:

- Solidus: 1310°F (710°C)
- Liquidus: 1431°F (769°C)
- Electrical Conductivity: 9.9 (%IACS)
- Electrical Resistivity: 19.2

BRAZING PROPERTIES:

Harris 0HHP is a higher phosphorus content version of Harris 0 and 0HP. This alloy offers one of the lowest melting temperatures for a copper phosphorus brazing alloys. This low temperature coupled with its narrow melting range is ideally suited for copper connections with controlled narrow clearance, preferably close to 0.003". It is sometimes used for manual brazing but is more frequently supplied in ring form for automated brazing of copper return bends in HVACR evaporator and condenser coils. Harris 0HHP is also a suitable choice for brazing brass. In this application operators should take care to avoid over heating the brass and use Harris Stay Silv® white or ECO Smart® brazing flux. Harris 0HHP is not recommended for brazing steel or other ferrous base metals. The phosphorus content will form a low ductility intermetallic with the base metal.

CORROSION RESISTANCE

Generally similar to the copper base metal, but phosphorus containing alloys, including Stay Silv 0HHP, should not be used if the braze is exposed to sulfur or sulfur compounds in service.

AVAILABLE FORMS

- Standard wire diameters, rods and preformed rings

RECOMMENDED FLUX:

No flux is required for copper brazing. For brazing brass or copper to brass use Stay-Silv® white flux. Harris ECO SMART® boric acid free flux, (powder or paste), is an excellent choice to promote sound brazed assemblies and comply with European REACH requirements.

SPECIFICATION COMPLIANCE:

Harris internal specification

SAFETY INFORMATION:

WARNING: PROTECT yourself and others. Read and understand this information.

- FUMES AND GASES can be hazardous to your health.
- HEAT RAYS, (infrared radiation) from flame or hot metal can injure eyes.
  - Before use, read and understand the manufacturer’s instructions, Material Safety Data Sheets (MSDS), and your employer’s safety practices.
  - Keep your head out of fumes.
  - Use enough ventilation, exhaust at the flame, or heat source, to keep fumes and gases from your breathing zone and the general area.
  - Wear correct eye, ear, and body protection.

STATEMENT OF LIABILITY - DISCLAIMER

Any suggestion of product applications or results is given without representation or warranty, either expressed or implied. Without exception or limitation, there are no warranties of merchantability or of fitness for particular purpose or application. The user must fully evaluate every process and application in all aspects, including suitability, compliance with applicable law and non-infringement of the rights of others. The Harris Products Group and its affiliates shall have no liability in respect thereof.

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