SAFETY SILV® 50N CORED WIRE BRAZING FILLER METAL

NOMINAL CHEMICAL COMPOSITION:

<table>
<thead>
<tr>
<th>Element</th>
<th>Composition</th>
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<tbody>
<tr>
<td>Silver</td>
<td>49-51</td>
</tr>
<tr>
<td>Copper</td>
<td>19-21</td>
</tr>
<tr>
<td>Zinc</td>
<td>26-30</td>
</tr>
<tr>
<td>Nickel</td>
<td>1.5-2.5</td>
</tr>
<tr>
<td>Other (Total)</td>
<td>0.15</td>
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</tbody>
</table>

TYPICAL PHYSICAL PROPERTIES:

- Solidus: 1220°F (660°C)
- Liquidus: 1305°F (707°C)
- Brazing Range: 1305°F-1500°F (705°C-845°C)
- Electrical Conductivity: 15.00 (%IACS)
- Density: 4.89 (Troy ounces/cu.in.)

BRAZING PROPERTIES:

Safety Silv 50N brazing filler metal is engineered for brazing copper, brass, steel, nickel alloys, and stainless steel. These alloy exhibits improved corrosion resistance on stainless steel compared to other silver braze alloy deposits. It is frequently used to braze tungsten carbide to steel and tool steel for cutting tips, drill bits, and saw blades. The 2% nickel addition improves wetting and strength.

AVAILABLE FORMS:

- Standard wire diameters
- Preform rings
- Coils
- Rod

SPECIFICATION COMPLIANCE: (metal component):

- ANSI/AWS A5.8, ASME SFA 5.8, Class BAg-24
- AMS 4788, ISO 17672 Ag 450

FLUX CORE:

This alloy contains a continuous internal core of brazing flux. No additional flux is required. Remove flux residue after brazing.

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.

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