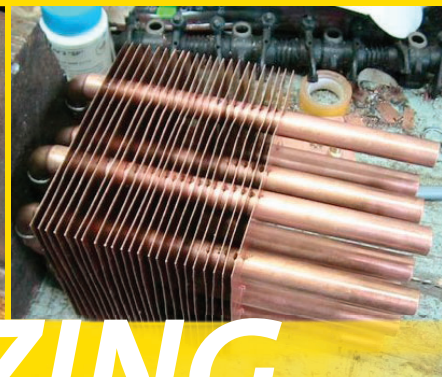
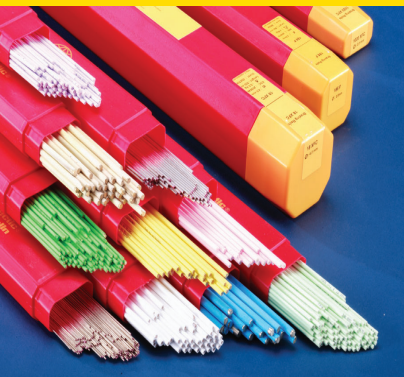


Brazing Rod for Copper-To Copper Joints

# EutecRod<sup>®</sup> 1803



## BRAZING

- Good for moderate to loose joint clearances
- Self-fluxing in copper to copper joints
- Excellent choice for light metal HVAC, pipe and electrical applications



## DESCRIPTION:

EutecRod 1803 is a copper-phosphorus alloy. EutecRod 1803 contains some 15% silver for improved corrosion resistance and flow characteristics in joints where close fits cannot be maintained

Excellent brazeability on copper-base alloys when used with FloTectic 1100 or Xuper Braze 100 fluxes.

## TECHNICAL DATA:

Typical Tensile Strength:	30,000 to 40,000 psi (207 to 276 MPa)
Solidus*:	1190°F (645°C)
Liquidus**:	1475°F (800°C)
Max. Brazing Temp.:	1500°F (815°C)
Electrical Conductivity:	9.9% IACS
Electrical Resistivity:	17.3 MichrOhm-cm
Heating Method.:	Oxy fuel torch, induction and furnace brazing

\*The solidus temperature is the highest temperature at which the part remains solid i.e. the start of melting.

\*\*The liquidus temperature is the lowest temperature at which the part is molten i.e. complete melting.

## BRAZING METHOD:

**Preparation:** Clean joint area with RotoClean® OS or use a VOC-free solvent. Align parts and preheat locally to facilitate quicker joint area heat-up. When brazing copper to brass or bronze paint joint area and rod with FloTectic® 1100.

**Technique:** Use a 2x carburizing flame to prevent oxidation. After preheating, deposit filler metal using a continuous “drop-and-melt” technique. **Note that 1803 is very fluid.** Make sure that joint gaps do not exceed 0.006”. Continue until the joint is slightly overfilled.

**Note:** When using a flux any “glassy” residue can be readily removed by light scraping.

**Post-Brazing:** If necessary, parts can be cooled in water.

## TYPICAL APPLICATIONS:

EutecRod 1803 has silver-enhanced flowability and ground-contact corrosion resistance.

Use when brazing copper heat exchangers, in-ground electrical connections, copper parts subject to vibration. No clean up is needed due to its self-fluxing properties.

## YOUR RESOURCE FOR PROTECTION, REPAIR AND JOINING SOLUTIONS



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