Brazing Alloy for Light Metal Joints

EutecRod 1804



- Good for tight to moderate joint clearances
- Self-fluxing in copper to copper applications
- Withstands constant service temperatures up to 300°F (150°C)



DESCRIPTION:

EutecRod 1804 is a copper-phosphorus alloy. Excellent brazeability on copper-base alloys when used with FloTectic 1100 or XuperBraze 100 fluxes.

TECHNICAL DATA:

Typical Tensile Strength: 50,000 psi (345 N/mm²)

Solidus*: 1190°F (645°C) Liquidus**: 1325°F (720°C) Max. Brazing Temp.: 1500°F (815°C) Electrical Conductivity: 9.5% IACS

Electrical Resistivity: 18.2 MichrOhm-cm

Heating Method.: Oxy fuel torch, induction and

furnace brazing

TYPICAL APPLICATIONS:

EutecRod 1804 is an economical alloy for repairing radiators, joining various plumbing connectors, air-conditioning coils, copper tubing.

Minimal clean-up required. Water and brushing are sufficient when necessary.

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 1804 is very fluid.* Make sure that joint gaps do not exceed 0.005". 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.

YOUR RESOURCE FOR PROTECTION, REPAIR AND JOINING SOLUTIONS



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^{*}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.