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› uxcell Copper Brazing Rods Instruction Manual

uxcell Low Temperature Welding Rod 2.5mm x 250mm

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Model: Low Temperature Welding Rod 2.5mm x 250mm

1. PRODUCT OVERVIEW

The uxcell Copper Brazing Rods are specialized tools designed for copper brazing in various applications, particularly within the HVAC and refrigeration industries. These low-temperature welding rods are suitable for repairing motors, air conditioners, meters, and other refrigeration equipment. They can also be used for brazing several pipes, small copper brazing operations, and various art projects.

Their low melting point makes them versatile for welding copper pipes in refrigerators, air conditioner copper pipe welding, general copper product welding, and even for securing handles on DIY craft tools like drift punches and knives.



Figure 1: The uxcell Copper Brazing Rods are suitable for a wide range of applications, including repair of household appliances and HVAC systems.

2. PACKAGE CONTENTS

Each package of uxcell Copper Brazing Rods includes the following:

- **Brazing Rods:** 21 pieces

21 Pcs

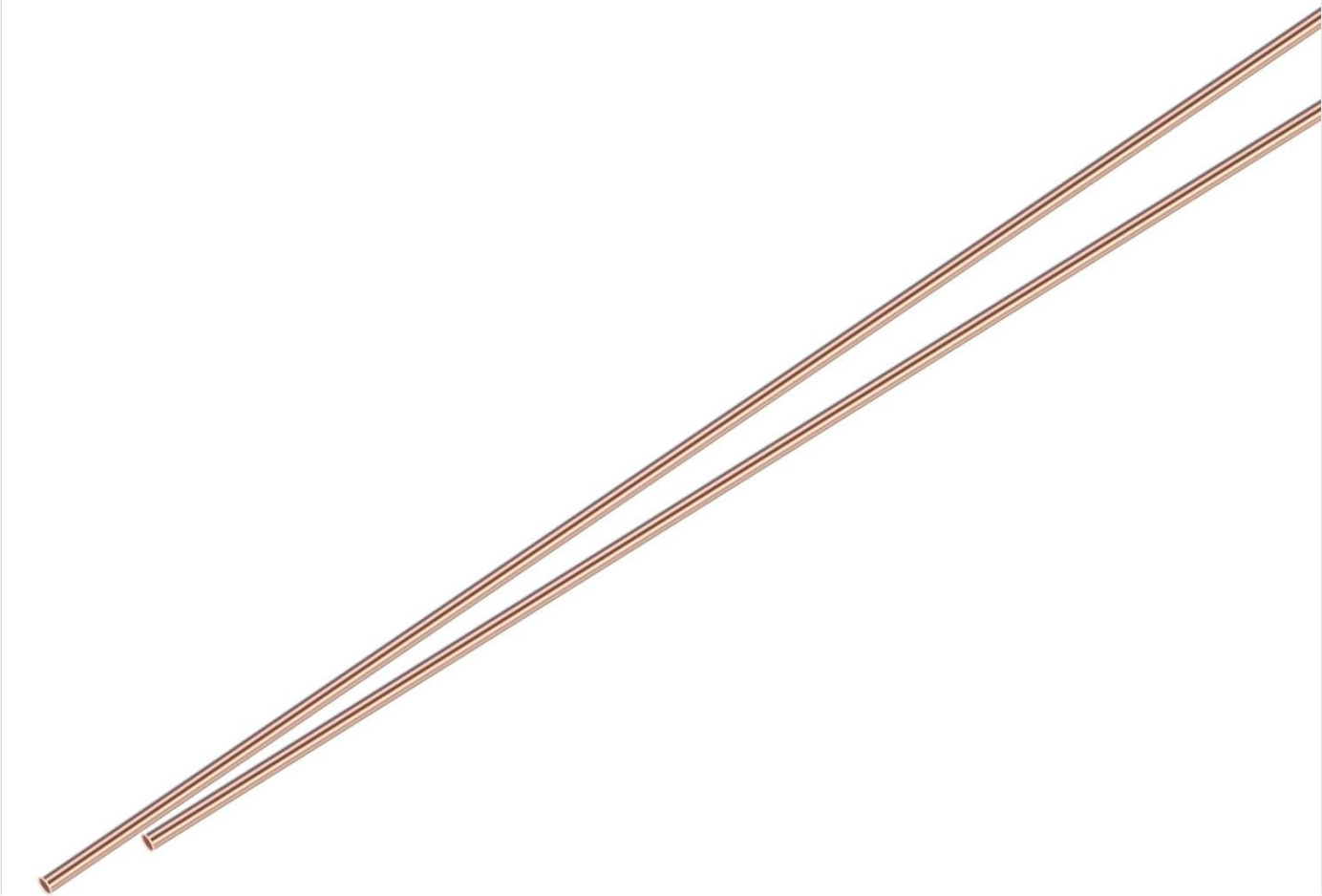


Figure 2: The package contains 21 individual copper brazing rods.

3. SPECIFICATIONS

Detailed specifications for the uxcell Copper Brazing Rods are provided below:

Attribute	Value
Size (Diameter x Length)	2.5mm x 250mm (0.1" x 9.84")
Welding Current	80(A)
Melting Point	710°C (1310°F)
Color	Copper
Style	Round Rod
Material	Phosphor Copper (L201)
Item Weight	220 g (approximate package weight)

SIZE

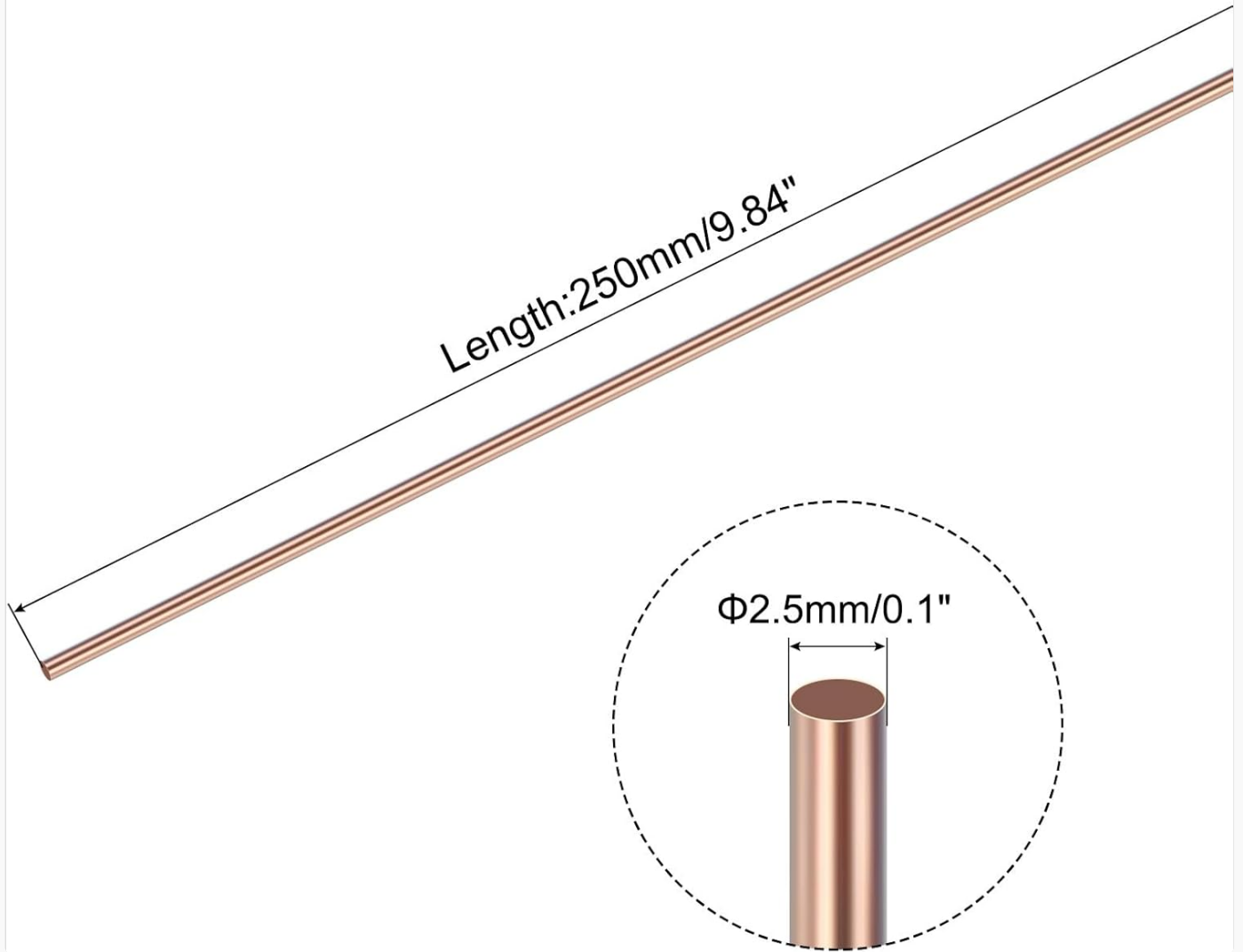


Figure 3: Detailed dimensions of the brazing rods.

4. PRODUCT ADVANTAGES

The uxcell Copper Brazing Rods offer several advantages for brazing applications:

1. The flux is evenly distributed, ensuring good continuity during the brazing process.
2. The welding rod is designed to prevent tangling during welding, which helps avoid blocking the conduit.
3. During welding, there is minimal spatter and smoke, resulting in firm and clean solder joints.
4. The rods exhibit good fluidity during welding, providing strong sealing properties and allowing the material to flow effectively into narrow spaces.



► Advantages

1. The flux is evenly distributed, and has good continuity;
2. The welding stick will not get tangled during welding and will not block the conduit;
3. There is less spatter and smog during welding, and the solder joints are firm;
4. Good fluidity during welding, strong caulking, and can flow into small spaces.

Figure 4: Key advantages of using uxcell Copper Brazing Rods.

5. SETUP AND PREPARATION

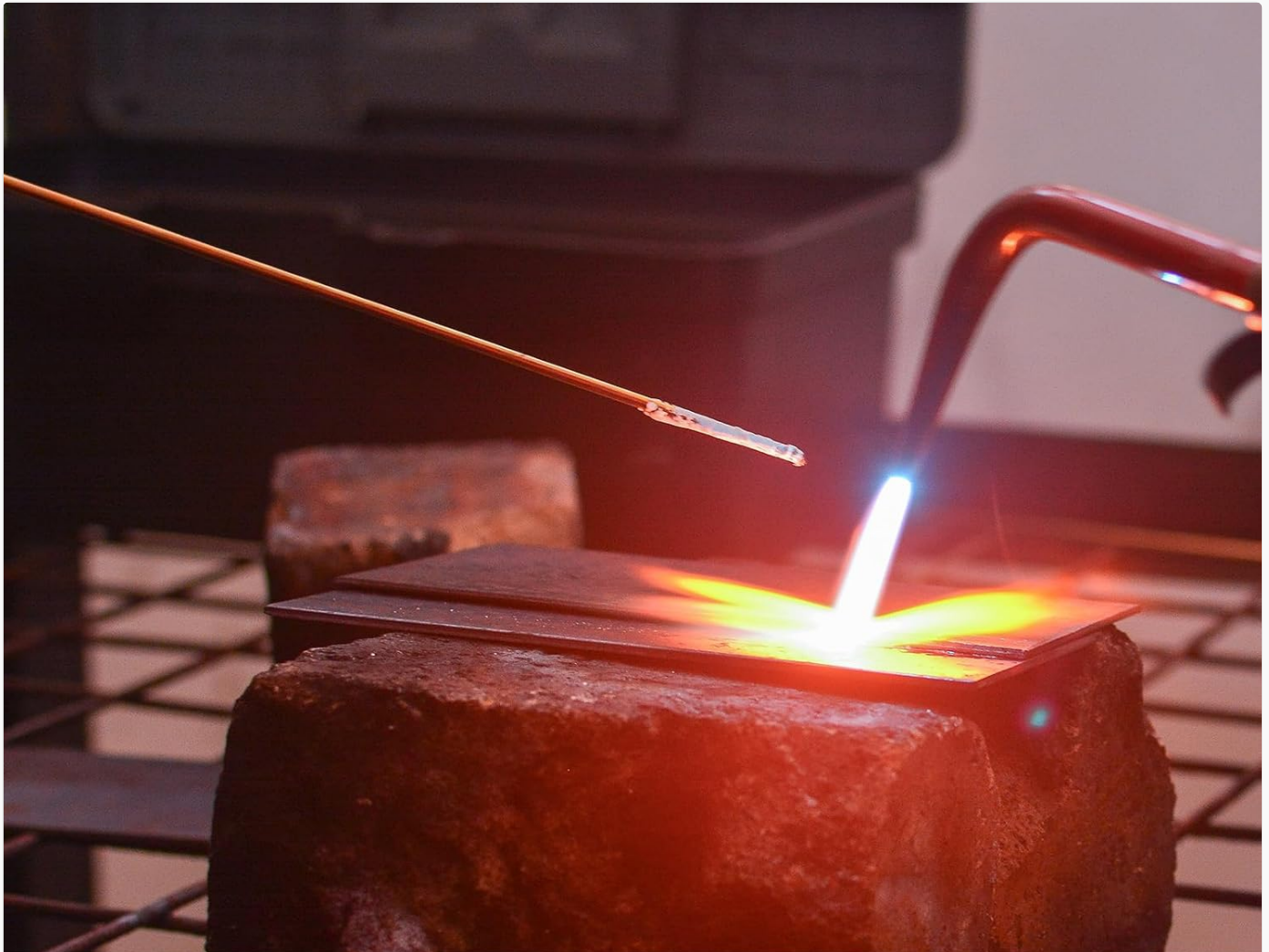
Proper preparation is crucial for successful brazing. Follow these steps before beginning the operation:

- **Clean the Surface:** Ensure the surface of the copper material to be brazed is thoroughly cleaned. Remove any dirt, grease, oxides, or other contaminants that could impede the brazing process.
- **Ventilation:** Work in a well-ventilated area to disperse fumes generated during brazing. If adequate natural ventilation is not available, use local exhaust ventilation.
- **Safety Equipment:** Always wear appropriate personal protective equipment (PPE), including welding gloves, safety glasses or a welding helmet, and protective clothing, to prevent burns and eye injuries.
- **Temperature Range:** Adhere to the recommended temperature range for brazing to ensure optimal results and safety.

6. OPERATING INSTRUCTIONS

Follow these steps for effective use of the uxcell Copper Brazing Rods:

1. **Insert the Rod:** Insert the brazing rod into your welding gun or pen.
2. **Adjust Settings:** Adjust the welding current and power settings on your equipment as needed for the specific brazing task.
3. **Melt the Contact Area:** Bring the tip of the welding rod into contact with the copper material at the joint to be brazed. Apply heat from your welding torch to the joint area until the brazing rod begins to melt and flow into the joint.
4. **Cooling and Cleanup:** After the brazing is complete, allow the joint to cool naturally. Once cooled, carefully remove any welding slag or remaining rod material from the brazed area.



► Application

The HVAC tools and equipment are used for brazing copper in motors, air-conditioners, meters, and refrigeration industries.

Figure 5: Brazing in progress, showing the application of heat and the melting of the rod.

7. MAINTENANCE AND STORAGE

As consumable items, the brazing rods themselves require minimal maintenance. However, proper storage is important to maintain their quality:

- **Storage:** Store unused brazing rods in a dry environment to prevent oxidation and contamination. Keep them in their original packaging or a sealed container.
- **Handling:** Handle rods carefully to avoid bending or damaging them before use.

8. TROUBLESHOOTING

While brazing rods are straightforward to use, issues can arise. Consider the following if you encounter problems:

- **Poor Flow/Adhesion:** Ensure the surface of the material is perfectly clean. Contaminants are the most common cause of poor flow. Also, verify that the correct temperature is being applied; too low a temperature will prevent proper melting and flow.
- **Excessive Spatter/Smoke:** This can indicate incorrect heat settings or impurities on the surface. Re-check your equipment settings and ensure the work area is clean.
- **Rod Tangling:** While designed to resist tangling, ensure the rod is fed smoothly and not forced. Check for any obstructions in the welding gun/pen.

9. IMPORTANT SAFETY NOTES

Always prioritize safety when working with brazing equipment and materials:

- **Ventilation:** Ensure adequate ventilation to avoid inhaling fumes and gases produced during brazing.
- **Personal Protective Equipment (PPE):** Always wear appropriate safety gear, including eye protection (welding glasses or helmet), gloves, and protective clothing.
- **Fire Hazards:** Keep flammable materials away from the brazing area. Have a fire extinguisher readily available.
- **Hot Surfaces:** Brazed materials and equipment will be extremely hot. Allow them to cool completely before handling.
- **Manual Measurement Variation:** Please note that due to manual measurement, there may be slight errors in the stated size of the rods.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question