Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

Oatey 53016

Oatey 53016 Rosin Core Wire Solder Instruction Manual

Model: 53016 | Brand: Oatey

Introduction

This manual provides essential instructions for the safe and effective use of the Oatey 53016 Rosin Core Wire Solder. This product is a tin-lead alloy wire solder with a rosin flux core, specifically designed for electrical applications. Please read this manual thoroughly before use and retain it for future reference.

Important Safety Information

WARNING: This product contains lead, a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.
Always use appropriate personal protective equipment (PPE) when handling solder, including safety glasses and gloves. Ensure adequate ventilation in the work area to avoid inhaling fumes. Keep out of reach of children and pets.
This solder is intended for electrical applications only and is**not** for use in potable water systems or other applications as defined by local laws.
Refer to the product packaging for additional warnings and safety instructions.

Product Overview

The Oatey 53016 Rosin Core Wire Solder is a 40/60 alloy, meaning it consists of 40% tin and 60% lead. It features a rosin flux core, which eliminates the need for separate flux application, ensuring an even distribution of flux and solder.





Image: Oatey 53016 Rosin Core Wire Solder in its packaging, showing product details and warnings.

Key Features:

- Wire solder containing rosin flux core.
- 40/60 alloy (40% tin, 60% lead).
- Designed for electrical applications, including wiring and fine electronic work.
- Flux and solder in one, saving time and ensuring even application.

- Leaves no residue.
- Available in 1/4 lb. spool.

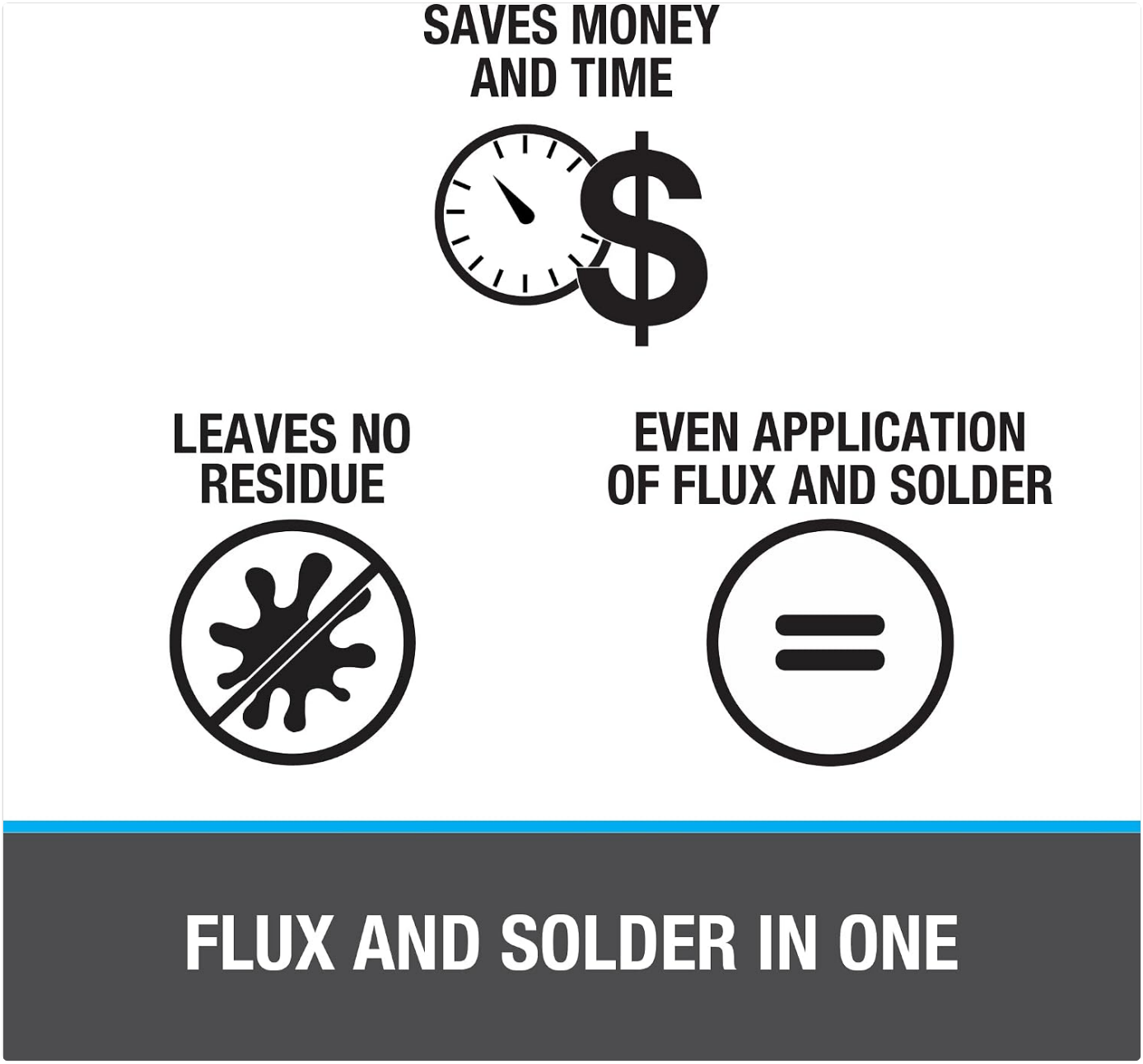


Image: Diagram highlighting the benefits of integrated flux and solder, including time and money savings, no residue, and even application.

Setup and Preparation

1. **Work Area:** Choose a well-ventilated area. If natural ventilation is insufficient, use a fume extractor.
2. **Personal Protective Equipment (PPE):** Wear safety glasses to protect eyes from splashes and fumes. Use heat-resistant gloves to prevent burns.
3. **Tools Required:**
    - Soldering Iron (appropriate wattage for your application)
    - Soldering Iron Stand
    - Sponge or Brass Wool (for cleaning soldering iron tip)
    - Wire Strippers (if working with wires)
    - Heat Shrink Tubing or Electrical Tape (for insulation)
    - Workpiece Holder (optional, for stability)

4. **Surface Preparation:** Ensure all surfaces to be soldered are clean, dry, and free of grease, dirt, or oxidation. Use fine-grit sandpaper or a wire brush if necessary.



Image: A person preparing a copper pipe for soldering by cleaning the surface with a brush, demonstrating proper surface preparation.

Operating Instructions

Follow these steps for effective soldering:

1. **Heat the Soldering Iron:** Plug in your soldering iron and allow it to reach its operating temperature. The tip should be clean and tinned (coated with a thin layer of solder).
2. **Clean the Tip:** Before each use, wipe the soldering iron tip on a damp sponge or brass wool to remove any oxidation or old solder.
3. **Heat the Workpiece:** Apply the hot soldering iron tip to the components or wires you intend to join. Heat both surfaces simultaneously. Do not apply the iron directly to the solder wire.
4. **Apply Solder:** Once the workpiece is sufficiently hot, touch the Oatey Rosin Core Wire Solder to the heated joint, opposite the soldering iron tip. The heat from the workpiece should melt the solder, allowing it to flow smoothly into

the joint. Do not melt the solder directly with the iron.

5. **Remove Solder and Iron:** Once enough solder has flowed to form a strong, shiny joint, remove the solder wire first, then the soldering iron.
6. **Allow to Cool:** Let the joint cool naturally without disturbing it. A good solder joint will appear shiny and smooth.

Note: This solder is specifically formulated for electrical applications. For plumbing or other applications, ensure you are using the correct type of solder and flux.

Maintenance and Storage

Solder Spool:

- Store the Oatey 53016 Rosin Core Wire Solder in a cool, dry place, away from direct sunlight and moisture.
- Keep the spool sealed in its original packaging or an airtight container to prevent oxidation and contamination.

Soldering Iron:

- Regularly clean the soldering iron tip with a damp sponge or brass wool.
- Tin the tip with a small amount of fresh solder after cleaning and before storing to prevent oxidation.
- Unplug the soldering iron when not in use and allow it to cool completely before storing.

Troubleshooting Common Issues

Problem	Possible Cause	Solution
Solder not flowing smoothly / "Cold Joint"	Insufficient heat on the workpiece; dirty or oxidized workpiece; dirty soldering iron tip.	Ensure the soldering iron is hot enough. Heat the workpiece directly, not the solder. Clean the workpiece and the soldering iron tip.
Solder forms a ball / Does not adhere	Workpiece not hot enough; excessive oxidation on workpiece; insufficient flux.	Reheat the workpiece. Clean the workpiece thoroughly. Ensure the rosin core solder is making good contact.
Excessive smoke/fumes	Overheating the solder or workpiece; poor ventilation.	Reduce soldering iron temperature if possible. Ensure adequate ventilation or use a fume extractor. Avoid prolonged contact of the iron with the solder.

Product Specifications

- **Model Number:** 53016
- **Brand:** Oatey
- **Alloy Composition:** 40% Tin, 60% Lead (40/60)
- **Flux Type:** Rosin Core
- **Form:** Wire Solder
- **Weight:** 1/4 lb (approximately 3.2 ounces)
- **Intended Use:** Electrical applications (wiring, fine electronic work)
- **Material:** Metal

- **Product Dimensions:** Approximately 17.1 x 17.8 x 18.4 inches (packaging dimensions)



Image: A spool of Oatey Rosin Core Wire Solder, with text highlighting its 40% tin, 60% lead composition, suitability for electrical applications, and rosin flux core. It also explicitly states "Not for drinking water".

Warranty Information

Information regarding the warranty for the Oatey 53016 Rosin Core Wire Solder is typically included with the product packaging. For specific warranty terms and conditions, please consult the documentation provided with your purchase or visit the official Oatey website.

Customer Support

For further assistance, technical questions, or to report an issue, please contact Oatey customer support:

- **Website:** Visit the official Oatey website for product information, FAQs, and contact options.
- **Phone:** Refer to the product packaging or the Oatey website for customer service phone numbers.

- **Store:** You can also visit the Oatey Store on Amazon for more products and information.

© 2023 Oatey. All rights reserved. Information subject to change without notice.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

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

Open the live page

https://manuals.plus/asin/B000MWB1BI

More documents and user manuals: **https://manuals.plus/**