

PCB Etching Solution – 125mL

The **PCB Etching Solution (125mL)** is an essential chemical used for manufacturing and prototyping printed circuit boards (PCBs). Designed to provide precise, clean, and efficient copper removal, this solution is perfect for students, hobbyists, and professionals involved in electronics design and PCB fabrication. It ensures that your circuit patterns are clearly defined, sharp, and professional-looking — whether you're producing a single prototype or conducting small-scale production.



What Is PCB Etching Solution?

Etching is one of the most important steps in PCB production. It involves removing unwanted copper from the PCB surface to leave only the desired conductive tracks. The **PCB Etching Solution** is a specially formulated chemical mixture that reacts with exposed copper to dissolve it efficiently, leaving behind clean, well-defined circuit lines.

This 125mL solution provides just the right amount for small- to medium-sized projects, making it an ideal choice for electronics labs, makerspaces, and DIY enthusiasts. It works effectively on both **single-sided and double-sided copper-clad boards**, ensuring consistent, reliable performance every time.

High Efficiency and Clean Results

The **PCB Etching Solution 125mL** delivers **fast etching performance** while maintaining precise control over the process. Its balanced composition ensures that copper is removed evenly without undercutting the circuit tracks or damaging the board. The result is a **smooth, professional finish** suitable for high-quality electronic prototypes and educational use.

By using this etching solution, you can achieve fine, detailed patterns that are essential for modern electronic designs. It is ideal for creating custom circuits for microcontrollers, sensors, power supplies, and more.

Key Features:

- **✦ Volume:** 125mL – ideal for educational, DIY, and small professional projects.

- **◆ Fast and Clean Etching:** Removes copper efficiently, leaving crisp and defined circuit traces.
- **◆ Consistent Results:** Ensures uniform etching across the entire board surface.
- **◆ Easy to Use:** Suitable for beginners and professionals alike.
- **◆ Safe and Stable Composition:** Designed for safe handling when used with proper precautions.
- **◆ Versatile Application:** Works with both single and double copper-clad boards.

How to Use the PCB Etching Solution

1. **Prepare Your PCB:** Transfer your circuit design onto the copper board using toner transfer, photoresist, or another preferred method.
2. **Heat the Solution (Optional):** Slightly warm the solution to speed up the etching process — avoid boiling.
3. **Immerse the PCB:** Place the board in a plastic or glass container and pour the etching solution until the board is fully submerged.
4. **Agitate Gently:** Move the container slightly to ensure even etching.
5. **Monitor Progress:** Check the board every few minutes until all unwanted copper is removed.
6. **Rinse and Dry:** Once etching is complete, rinse the PCB thoroughly with water and let it dry.

⚠️ **Safety Note:** Always wear **gloves, safety goggles, and work in a well-ventilated area** when handling etching solutions. Avoid direct contact with skin or eyes, and never use metal containers. Dispose of used solution responsibly, following local environmental guidelines.

Applications

The **PCB Etching Solution 125mL** is suitable for:

- DIY and educational PCB projects
- Small-scale electronics manufacturing
- Prototyping new circuit designs
- Repairing or modifying existing boards
- Laboratory and classroom use

This product is a great choice for **engineering students, makers, and technicians** who want reliable, professional-quality etching results without the complexity of industrial-grade chemicals.

Why Choose This PCB Etching Solution?

The **125mL PCB Etching Solution** is specifically formulated to balance **speed, precision, and safety**. It works efficiently even at room temperature, produces minimal residue, and helps

maintain the integrity of fine circuit traces. Unlike harsh industrial alternatives, this solution is easy to handle and ideal for small projects or academic environments.

It's an affordable, practical, and high-quality option for those looking to produce **sharp, clean PCBs** at home, in workshops, or in educational labs.

Conclusion

The **PCB Etching Solution (125mL)** is a reliable and effective choice for producing professional-grade printed circuit boards. It provides the perfect balance between **etching power and precision**, ensuring your designs come out clear and accurate every time.

Whether you're a student creating your first circuit board or a professional refining prototypes, this etching solution offers consistent performance, safety, and ease of use — making it a must-have in any electronics workspace.