

Corning 5100-250

Corning 5100-250 Pyrex Wide Mouth Erlenmeyer Flask User Manual

Model: 5100-250

PRODUCT OVERVIEW

The Corning 5100-250 Pyrex Wide Mouth Erlenmeyer Flask is a versatile piece of laboratory glassware designed for various scientific applications, including titration. It features a heavy-duty rim to minimize chipping and a wide mouth for easy access and cleaning. The flask is graduated in durable white enamel, indicating approximate capacities from 50 mL to 200 mL, and includes an extra-large marking spot for clear labeling. Its uniform wall thickness ensures a balance of mechanical strength and resistance to thermal shock.



Image 1: Front view of the Corning 5100-250 Pyrex Wide Mouth Erlenmeyer Flask, showing the 250 ml capacity, PYREX® branding, "Made in Germany" text, 50 ml, 100 ml, 150 ml, and 200 ml graduations with $\pm 5\%$ tolerance, and "No. 5100 STOPPER No. 8" text.

SETUP

The Corning 5100-250 Erlenmeyer Flask is ready for immediate use upon receipt. No assembly is required. Before first use, it is recommended to clean the flask thoroughly according to standard laboratory glassware cleaning procedures.

Required Accessories (Not Included):

- **Rubber Stopper No. 8:** For sealing the flask when required for experiments or storage.
- Appropriate cleaning solutions and brushes for glassware.

OPERATING INSTRUCTIONS

This Erlenmeyer flask is designed for general laboratory use, including mixing, heating, cooling, incubation, filtration, and titration.

Usage Guidelines:

1. **Filling:** Carefully pour liquids into the flask. The wide mouth facilitates easy pouring and minimizes spills.
2. **Measuring:** Use the white enamel graduations for approximate volume measurements. For precise measurements, use calibrated volumetric glassware. The graduations range from 50 mL to 200 mL.
3. **Mixing:** Swirl the flask gently to mix contents. The conical shape aids in efficient mixing without splashing.
4. **Heating:** The flask is designed with uniform wall thickness for thermal shock resistance. It can be heated on a hot plate, with a Bunsen burner (using a wire gauze), or in a water bath. Ensure even heating to prevent localized stress.
5. **Cooling:** The flask can be cooled in an ice bath or refrigerator.
6. **Sealing:** If sealing is required, use a No. 8 rubber stopper (not included) to ensure a secure fit.
7. **Marking:** Utilize the extra-large marking spot for temporary or permanent labeling with appropriate laboratory markers.

Important: Always handle glassware with care. Avoid sudden temperature changes that could exceed the flask's thermal shock resistance, although it is designed to be robust.

MAINTENANCE AND CARE

Proper maintenance extends the life of your Pyrex Erlenmeyer flask and ensures accurate results.

Cleaning:

- After each use, rinse the flask thoroughly with water.
- Wash with appropriate laboratory detergents and brushes. The wide mouth allows for easy access for cleaning.
- For stubborn residues, use specialized glassware cleaning solutions or methods (e.g., acid baths, ultrasonic cleaners) as per laboratory safety protocols.
- Rinse multiple times with distilled or deionized water to remove all traces of cleaning agents.
- Dry the flask completely before storage or next use.

Storage:

- Store clean, dry flasks in a designated area to prevent breakage and contamination.
- Avoid stacking flasks directly on top of each other without protective dividers.

Inspection:

- Regularly inspect the flask for chips, cracks, or scratches, especially around the rim and base.
- Do not use damaged glassware, as it can compromise safety and experimental integrity.

TROUBLESHOOTING

While the Corning Pyrex flask is a robust piece of equipment, issues can arise from improper handling or use.

Problem	Possible Cause	Solution
Flask breaks during heating/cooling	Sudden or extreme temperature changes; pre-existing micro-cracks.	Ensure gradual heating/cooling. Inspect flask for damage before use. Discard damaged glassware.
Chipping around the rim	Impact with hard surfaces; improper handling.	Handle with care. The heavy-duty rim is designed to reduce chipping, but not eliminate it entirely. Discard if chipped.

Problem	Possible Cause	Solution
Residue difficult to remove	Dried-on chemicals; inappropriate cleaning method.	Clean immediately after use. Use appropriate detergents or specialized cleaning solutions for specific residues. Consider soaking.

SPECIFICATIONS

- Model Number:** 5100-250
- Brand:** Corning
- Material:** Borosilicate Glass (Pyrex)
- Capacity:** 250 mL
- Graduation Range:** 50 mL - 200 mL
- Graduation Accuracy:** ±5% (approximate)
- Stopper Size Required:** No. 8 Rubber Stopper (not included)
- Rim Type:** Heavy Duty
- Bottom Shape:** Round
- Product Dimensions:** Approximately 4.17 x 4.17 x 4.17 inches (106 mm diameter)
- Weight:** Approximately 3.2 ounces
- Manufacturer:** Corning Incorporated

WARRANTY INFORMATION

Corning products are manufactured to high-quality standards. For specific warranty details regarding the Corning 5100-250 Pyrex Wide Mouth Erlenmeyer Flask, please refer to the official Corning website or contact their customer support directly. General warranties typically cover manufacturing defects under normal use conditions.

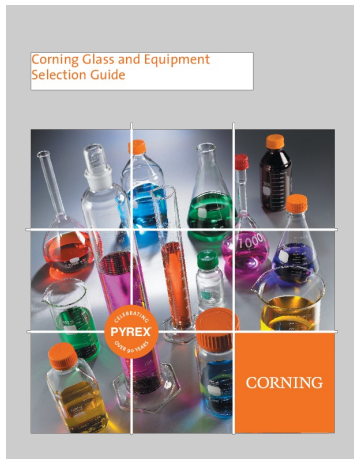
CUSTOMER SUPPORT

For technical assistance, product inquiries, or support, please contact Corning Incorporated directly through their official channels:

- **Website:** www.corning.com/life-sciences (or relevant product page)
- **Contact Information:** Refer to the "Contact Us" section on the official Corning website for phone numbers and email addresses specific to your region.

When contacting support, please have your product model number (5100-250) and any relevant purchase information ready.





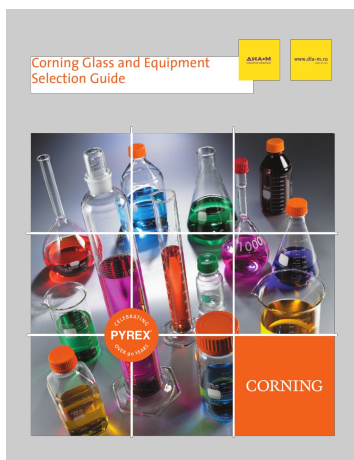
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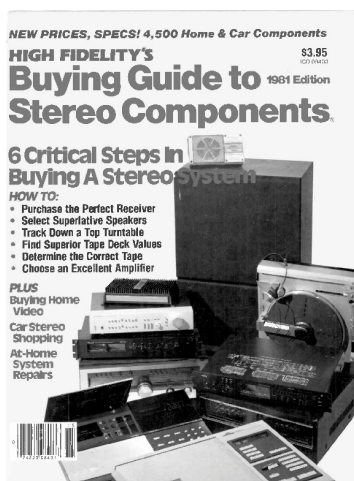
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