Bykski B-NS-ZROE

Bykski ZROE Liquid Cooling Coolant User Manual

Model: B-NS-ZROE

1. Introduction

This manual provides comprehensive instructions and important information for the safe and effective use of Bykski ZROE Liquid Cooling Coolant. Designed for high-performance PC liquid cooling systems, this coolant offers excellent thermal conductivity, corrosion resistance, and aesthetic appeal. Please read this manual thoroughly before use to ensure proper application and system longevity.

2. Safety Information and Warnings

It is critical to adhere to the following safety guidelines:

- **DO NOT DILUTE THE COOLANT:** Adding purified water or any other liquid will dilute the colors and significantly weaken the coolant's properties, including its anti-corrosion and low conductivity characteristics.
- **COMPATIBILITY:** This coolant is formulated for use in liquid cooling loops that do**NOT** contain aluminum parts. Ensure your system's components are compatible before use.
- **HANDLING:** Avoid direct contact with skin and eyes. In case of contact, rinse thoroughly with water. Keep out of reach of children and pets.
- **DISCLAIMER:** Bykski is not responsible for any damage caused by or when using this product due to improper handling, dilution, or incompatible system components.

3. Product Overview

Bykski ZROE Coolant is a premium liquid cooling solution engineered for optimal performance and system protection. Its advanced formulation ensures a low dielectric constant, excellent corrosion resistance, and vibrant, fade-resistant color that does not stain easily.

Key Features:

- Stain Resistant

- Efficient Thermal Conductor
- Low Conductivity
- Non-Fading
- Ready To Use (no mixing required)

What's Included:

- 1x 500mL Bottle of Bykski ZROE Liquid Cooling Coolant (Clear)



Figure 3.1: The Bykski ZROE Liquid Cooling Coolant is supplied in a 500ml bottle, ready for direct use in your liquid cooling system.

4. Preparation and Usage

Before introducing Bykski ZROE Coolant into your system, ensure your liquid cooling loop is clean and free of any contaminants or previous coolant residues. It is recommended to flush the system thoroughly with distilled water before filling.

Steps for Filling Your System:

1. **System Preparation:** Ensure your liquid cooling loop is fully assembled, leak-tested (with air pressure or distilled water), and completely drained.
2. **Shake Bottle Gently:** Gently shake the Bykski ZROE Coolant bottle to ensure uniform consistency before opening.
3. **Fill Reservoir:** Carefully pour the coolant directly into your system's reservoir. Avoid spilling.
4. **Bleed Air:** Once the reservoir is filled, power on your pump (without powering on other components if possible) to circulate the coolant and remove air bubbles from the loop. Tilt your PC case gently to help dislodge trapped air.
5. **Top Off:** As air is bled out, the coolant level in the reservoir will drop. Continue to top off the reservoir until the system is full and no more significant air bubbles are visible.
6. **Final Check:** After filling, perform a final leak check before fully powering on your computer.



Figure 4.1: The clear Bykski ZROE coolant, as seen in a laboratory flask, demonstrates its transparent and pure composition, ready for integration into your cooling system.

5. Maintenance

Proper maintenance of your liquid cooling system, including the coolant, is essential for long-term performance and reliability.

- **Shelf Life:** The Bykski ZROE Coolant has a shelf life of 3 years when stored properly.
- **Storage:** Store the coolant bottle at room temperature, away from direct sunlight and extreme temperatures.
- **Coolant Replacement:** While Bykski ZROE Coolant is designed for longevity, it is generally recommended to replace the coolant in your system every 12-24 months, or sooner if you observe any discoloration, particulate formation, or significant performance degradation.
- **System Cleaning:** Before refilling with new coolant, thoroughly clean and flush your entire liquid cooling loop to remove any accumulated debris or old coolant residues.

6. Troubleshooting

This section addresses common issues that may arise when using liquid cooling coolants.

Common Issues and Solutions:

- **Coolant Discoloration:** While Bykski ZROE Coolant is fade-resistant, discoloration can occur due to contaminants in the loop, incompatible materials, or biological growth.
  Solution: Drain the system, thoroughly clean and flush all components, and refill with fresh coolant. Ensure all components are compatible with the coolant.
- **Reduced Cooling Performance:** This is rarely due to the coolant itself unless it's heavily contaminated or diluted. More often, it's related to air bubbles, pump issues, or blockages.
  Solution: Check for trapped air bubbles and bleed the system. Inspect the pump for proper operation. If issues persist, drain and inspect the loop for blockages.
- **Leaks:** Coolant leaks are typically due to improper fitting installation, damaged O-rings, or cracks in components.
  Solution: Immediately power down the system. Identify the source of the leak, replace or repair the faulty component, and ensure all fittings are securely tightened.
- **Staining:** Bykski ZROE Coolant is designed to be stain-resistant. If staining occurs, it may indicate an issue with the material it's in contact with or extreme conditions.
  Solution: Clean the affected area. Ensure all loop components are made of compatible materials (non-aluminum).

7. Specifications

Detailed technical specifications for Bykski ZROE Liquid Cooling Coolant (B-NS-ZROE).

Attribute	Specification
Model	B-NS-ZROE
Volume	500 mL
Color	Clear (also available in Blue, Red, Orange, Yellow, Green)
Shelf Life	3 years
Boiling Point	150°C (302°F)
Melting Point	-20°C (-4°F)
Storage Temperature	Room temperature
Compatibility	Non-Aluminum Liquid Cooling Loops
Product Dimensions (Bottle)	8.82 x 2.52 x 2.52 inches (224 x 64 x 64 mm approx.)
Item Weight (Bottle)	3 pounds (approx. 1.36 kg)
Manufacturer	Bykski



Figure 7.1: Technical drawing illustrating the approximate dimensions of the Bykski ZROE coolant bottle (dimensions in millimeters).

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