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> K KAMOER Silicone Tube S17# 6.4mm ID x 9.6mm OD User Manual

K KAMOER S17#

K KAMOER Silicone Tube S17# User Manual

Model: S17# (6.4mm ID x 9.6mm OD)

1. INTRODUCTION

This manual provides essential information for the proper use, installation, and maintenance of the K KAMOER Silicone Tube S17#. This tubing is designed for various applications requiring high-quality, flexible, and durable silicone material, particularly suitable for peristaltic pumps and other fluid transfer systems.

Please read this manual thoroughly before using the product to ensure safe and efficient operation.

2. SAFETY INFORMATION

- Always wear appropriate personal protective equipment (PPE) when handling chemicals or fluids.
- Ensure the tubing is compatible with the fluids being transferred and the operating temperature and pressure.
- Avoid sharp bends or kinks that can restrict flow or damage the tubing.
- Do not exceed the specified temperature and pressure limits for the tubing.
- Inspect the tubing regularly for signs of wear, damage, or degradation. Replace immediately if any damage is observed.

3. PRODUCT OVERVIEW AND FEATURES

The K KAMOER Silicone Tube S17# is a high-quality silicone rubber tube with specific dimensions and properties suitable for various industrial, laboratory, and household applications. It is designed for durability and performance in demanding environments.

Key Features:

- **Material:** High-grade silicone rubber.
- **Dimensions:** 6.4mm Inner Diameter (ID) x 9.6mm Outer Diameter (OD).
- **Wall Thickness:** 1.6mm.
- **Temperature Resistance:** Suitable for high-temperature applications.
- **Flexibility:** Excellent tear resistance and maintains shape under stress.

- **Applications:** Ideal for peristaltic pumps, fluid transfer, and general laboratory use.

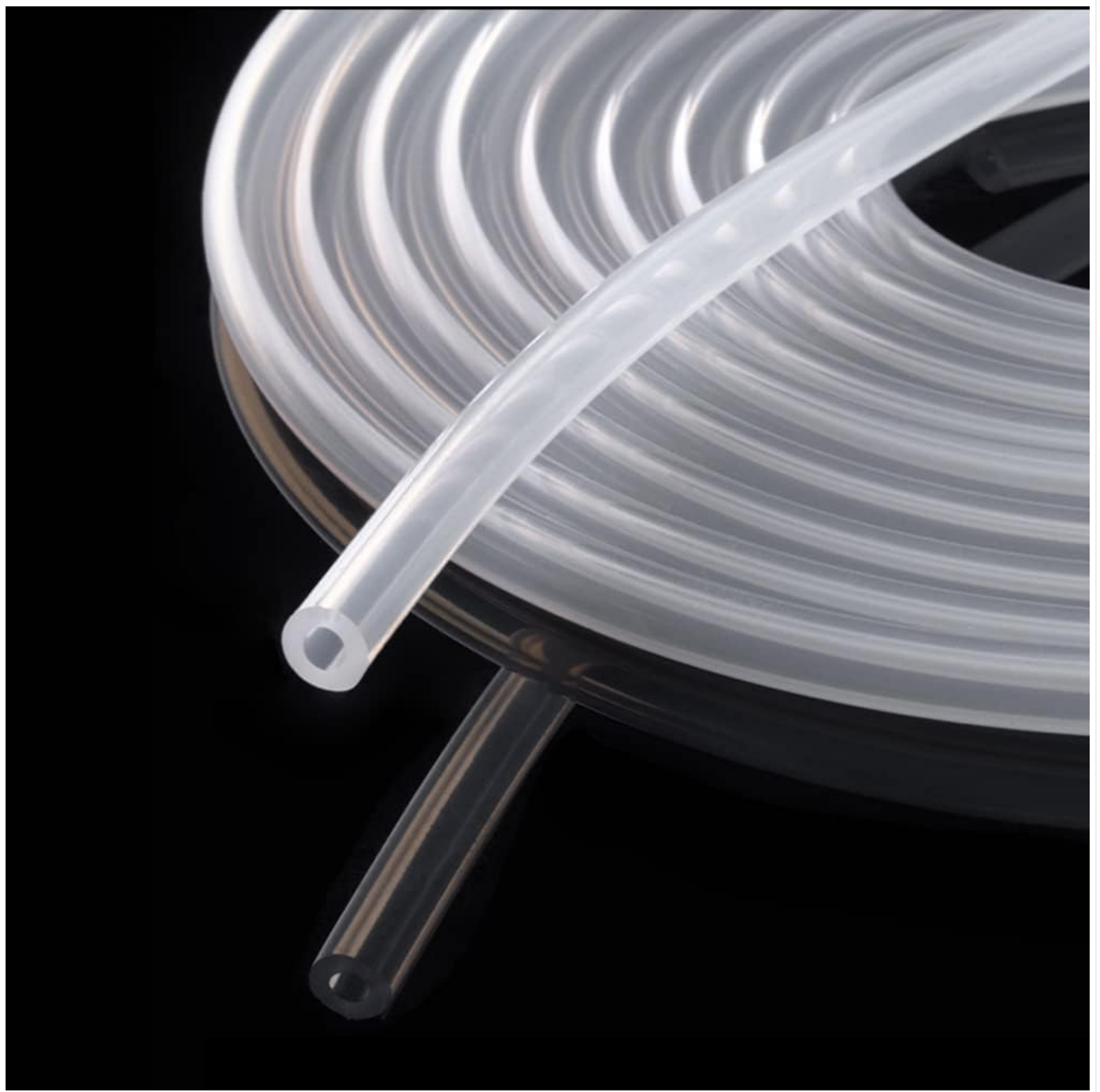


Figure 1: Diagram illustrating the inner diameter (ID), outer diameter (OD), and wall thickness of the silicone tube.

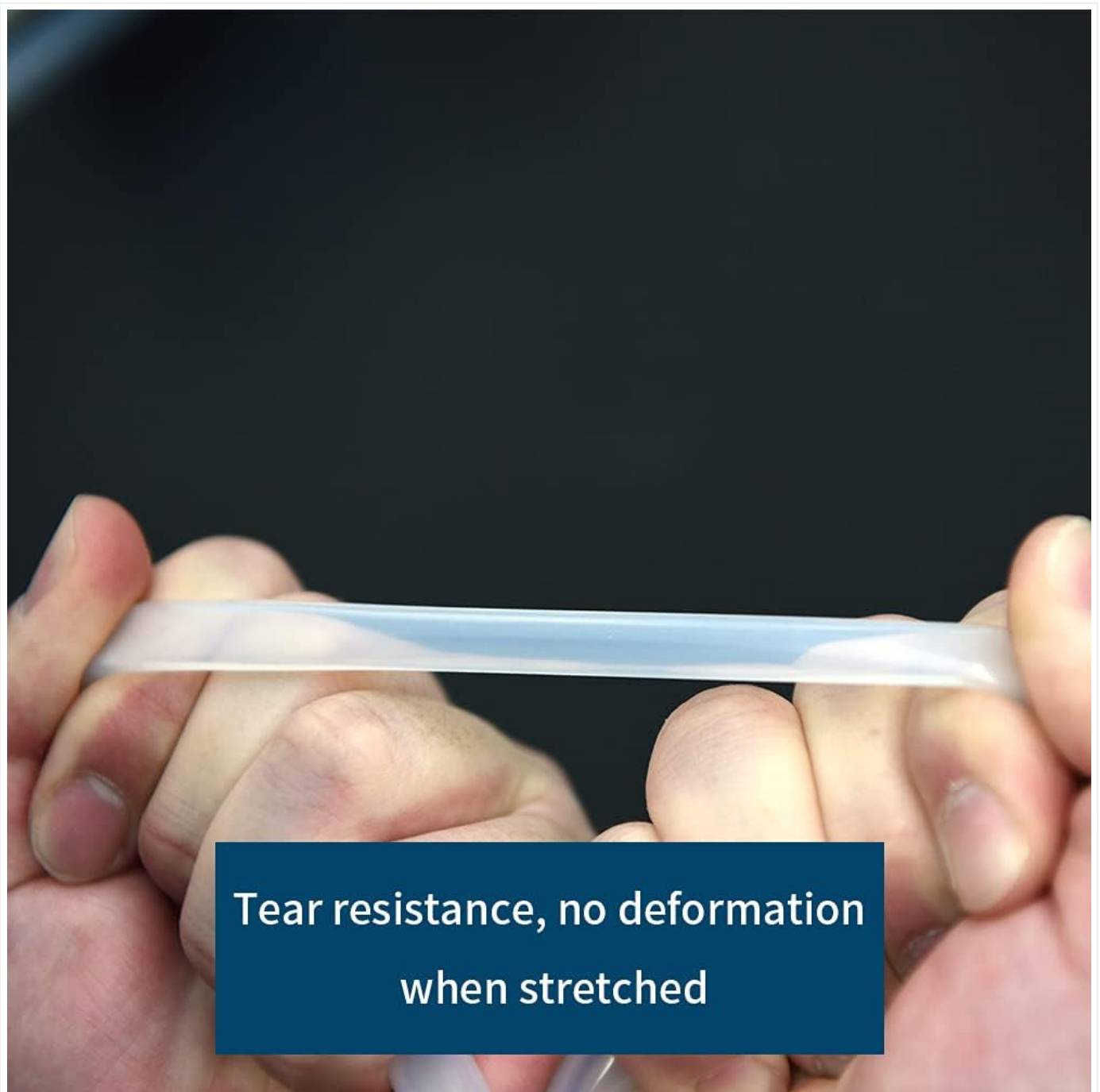


Figure 2: The silicone tube exhibits tear resistance and no deformation when stretched, highlighting its durability.

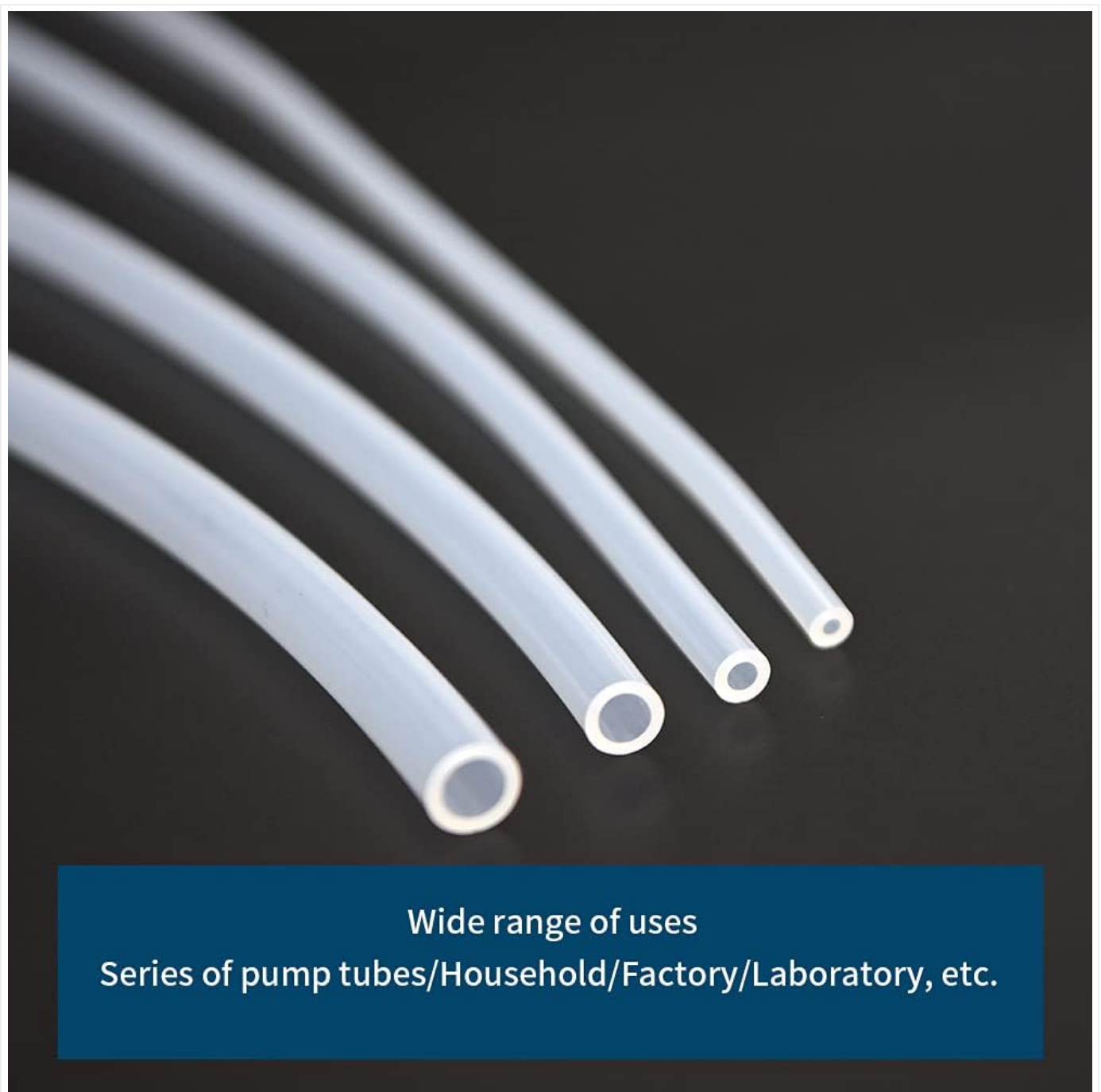


Figure 3: Kamoer silicone tubes are suitable for a wide range of uses, including pump systems, household, factory, and laboratory applications.

4. SETUP

1. **Unpack:** Carefully remove the silicone tubing from its packaging.
2. **Inspect:** Before use, visually inspect the entire length of the tubing for any cuts, abrasions, kinks, or other signs of damage. Do not use damaged tubing.
3. **Cut to Length:** If necessary, cut the tubing to the desired length using a sharp, clean cutting tool to ensure a straight, burr-free cut.
4. **Connect:** Connect the tubing to appropriate fittings or equipment. Ensure all connections are secure and leak-free. For peristaltic pump applications, ensure the tubing is correctly seated in the pump head according to the pump manufacturer's instructions.
5. **Clean:** For applications requiring sterility or purity, clean and sterilize the tubing according to your specific protocol before initial use.

5. OPERATING GUIDELINES

- **Flow Direction:** Ensure the tubing is installed to facilitate the intended flow direction.
- **Pressure and Temperature:** Operate within the specified pressure and temperature ranges for silicone tubing to prevent premature failure.
- **Chemical Compatibility:** Verify the chemical compatibility of the silicone with the fluid being transferred. While silicone is broadly compatible, certain strong acids, bases, or solvents may cause degradation.
- **Peristaltic Pump Use:** When used in peristaltic pumps, ensure the pump head rollers are properly adjusted to avoid excessive compression, which can shorten tube life.
- **Avoid Kinking:** Route the tubing to prevent kinking, especially around corners or tight spaces, to maintain consistent flow and prevent damage.

6. MAINTENANCE

- **Regular Inspection:** Periodically inspect the tubing for signs of wear, discoloration, hardening, softening, cracks, or swelling. Replace the tubing if any of these conditions are observed.
- **Cleaning:** Clean the tubing as needed using mild detergents and warm water. Rinse thoroughly with clean water. For specific applications, follow established cleaning protocols.
- **Sterilization:** Silicone tubing can typically be sterilized by autoclaving (steam sterilization) or by using appropriate chemical sterilants. Consult specific guidelines for your application.
- **Storage:** Store unused tubing in a cool, dry place away from direct sunlight, ozone, and extreme temperatures. Keep it in its original packaging if possible to protect it from environmental factors.

7. TROUBLESHOOTING

Common Issues and Solutions:

- **Reduced Flow Rate:**
 - Check for kinks or blockages in the tubing.
 - Ensure connections are not overly tight, restricting the inner diameter.
 - Verify pump settings if used with a peristaltic pump.
- **Leaks at Connections:**
 - Ensure fittings are compatible with the tubing dimensions.
 - Tighten connections appropriately; avoid overtightening which can damage the tubing.
 - Inspect the tubing ends for damage or uneven cuts.
- **Tubing Degradation (Discoloration, Hardening, Cracking):**
 - This indicates the tubing may be at the end of its service life or exposed to incompatible chemicals or extreme conditions.
 - Replace the tubing immediately.
 - Review chemical compatibility and operating conditions.

8. SPECIFICATIONS

Brand	K KAMOER
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Model	S17#
Material	Silicone Rubber
Inner Diameter (ID)	6.4 mm (0.25 inches)
Outer Diameter (OD)	9.6 mm (0.38 inches)
Nominal Wall Thickness	1.6 mm (0.063 inches)
Product Dimensions (L x W)	0.38"L x 0.38"W (referring to cross-section)
Manufacturer	Kamoer Fluid Tech (shanghai) Co., Ltd.

9. WARRANTY AND SUPPORT

Specific warranty information for the K KAMOER Silicone Tube S17# is not provided in this manual. For details regarding warranty coverage, returns, or technical support, please refer to the product packaging, the seller's website, or contact K KAMOER customer service directly.

For further assistance, please visit the official K KAMOER store or contact their support channels.

K KAMOER Store: <https://www.amazon.com/stores/KKAMOER/page/875951C3-73D5-47DA-8A45-087BD8FEF452>

