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> [Alemite](#) /

> Alemite 1652-B Loose Fitting User Manual

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Straight, SAE LT Special, 1/4" Male Taper

[Product Overview](#)

[Specifications](#)

[Setup](#)

[Operation](#)
[Support](#)

[Maintenance](#)

[Troubleshooting](#)

[Warranty &](#)

1. PRODUCT OVERVIEW

This manual provides instructions for the Alemite 1652-B Loose Fitting. This component is a straight, SAE LT Special, 1/4" Male Taper fitting designed for various industrial applications, primarily for lubrication systems. It is constructed from carbon steel and zinc-plated steel for durability and corrosion resistance.



Image 1: Alemite 1652-B Loose Fitting. This image displays the fitting, highlighting its threaded end and the connection point for lubrication equipment.

1.1 Package Contents

- Alemite 1652-B Threaded Fitting (Quantity: 1)

2. SPECIFICATIONS

Feature	Detail
Model Number	1652-B
Brand	Alemite
Size	1/4" Male Taper
Material	Carbon Steel, Zinc-Plated Steel
Color	Silver
Connector Type	Taper Thread (SAE-LT)

Feature	Detail
Thread Size	1/4"
Thread Type	NPT
Exterior Finish	Zinc
Item Weight	0.24 ounces

3. SETUP AND INSTALLATION

The Alemite 1652-B fitting is designed for straightforward installation into compatible threaded ports. Proper installation ensures a secure and leak-free connection for lubrication or hydraulic applications.

3.1 Installation Steps

- 1. Prepare the Port:** Ensure the receiving port is clean, free of debris, and has a matching 1/4" NPT female taper thread.
- 2. Apply Thread Sealant (Optional but Recommended):** For a more secure and leak-proof seal, apply a suitable thread sealant (e.g., PTFE tape or pipe thread compound) to the male taper threads of the Alemite fitting.
- 3. Thread the Fitting:** Carefully thread the Alemite 1652-B fitting into the prepared port by hand. Ensure it starts smoothly without cross-threading.
- 4. Tighten the Fitting:** Using an appropriate wrench on the hexagonal base of the fitting, tighten it until snug. Avoid over-tightening, which can damage the threads or the fitting itself. Refer to equipment manufacturer specifications for torque recommendations if available.
- 5. Verify Connection:** After tightening, visually inspect the connection for proper seating.

Note: Always ensure that the system is depressurized before installing or removing fittings. Wear appropriate personal protective equipment (PPE) during installation.

4. OPERATING INSTRUCTIONS

Once installed, the Alemite 1652-B fitting functions as a connection point within a lubrication or hydraulic system. Its operation is passive, facilitating the flow of fluids or grease when connected to appropriate equipment.

4.1 Typical Use

- Lubrication Point:** When used as a grease fitting (often called a Zerk fitting), connect a grease gun to the fitting's top to inject lubricant into the component.
- Hydraulic Connection:** In hydraulic systems, this fitting serves as a secure, threaded connection for hoses, pipes, or other hydraulic components.

Ensure that any connected equipment is compatible with the fitting's specifications (e.g., pressure ratings, fluid types).

5. MAINTENANCE

The Alemite 1652-B fitting is designed for durability and requires minimal maintenance. Regular inspection is key to ensuring its continued performance and preventing system issues.

5.1 Inspection and Care

- **Visual Inspection:** Periodically check the fitting for signs of wear, corrosion, cracks, or damage. Ensure the threads are intact and the fitting is securely seated.
- **Cleanliness:** Keep the exterior of the fitting clean, especially the connection point, to prevent contaminants from entering the system during operation.
- **Leak Checks:** In pressurized systems, regularly check for leaks around the fitting. If a leak is detected, re-tighten the fitting (without over-tightening) or replace it if damaged.
- **Replacement:** If the fitting shows significant wear, damage, or cannot maintain a seal, replace it with a new Alemite 1652-B fitting to ensure system integrity.

6. TROUBLESHOOTING

This section addresses common issues that may arise with the Alemite 1652-B fitting.

Problem	Possible Cause	Solution
Leakage at connection	<ul style="list-style-type: none">• Improper tightening• Damaged threads• No thread sealant or incorrect type• Incompatible mating threads	<ul style="list-style-type: none">• Re-tighten to specifications (do not over-tighten).• Inspect threads; replace fitting or port if damaged.• Apply appropriate thread sealant.• Ensure mating threads are 1/4" NPT.
Difficulty threading fitting	<ul style="list-style-type: none">• Cross-threading• Damaged threads on fitting or port• Incorrect thread size/type	<ul style="list-style-type: none">• Unscrew, realign, and re-thread carefully.• Inspect threads; replace damaged components.• Verify compatibility (1/4" NPT).
Fitting appears corroded	<ul style="list-style-type: none">• Exposure to harsh environments• Lack of protective coating integrity	<ul style="list-style-type: none">• Clean and inspect. If corrosion is significant, replace the fitting.• Consider additional protective measures for the environment.

7. WARRANTY AND SUPPORT

7.1 Warranty Information

Alemite products are manufactured to high standards. For specific warranty details regarding the 1652-B Loose Fitting, please refer to the official Alemite warranty policy available on their website or contact Alemite customer service directly. General warranties typically cover defects in materials and workmanship under normal use.

7.2 Customer Support

For technical assistance, product inquiries, or support, please contact Alemite customer service. Contact information can typically be found on the official Alemite website (www.alemite.com).

