

Us Army Technical Manual Tm 5 5430 218 13 Tank Fabric Collapsible 3000 Gallon Nsn 5430 00 268 8187

US Army Technical Manual TM 5-5430-218-13: Decoding the 3000-Gallon Collapsible Fabric Tank (NSN 5430-00-268-8187)

The US Army Technical Manual TM 5-5430-218-13 provides comprehensive guidance on the operation, maintenance, and repair of a crucial piece of military logistical equipment: the 3000-gallon collapsible fabric water tank, identified by National Stock Number (NSN) 5430-00-268-8187. This manual is essential for military personnel responsible for water storage and distribution in field operations, offering detailed specifications and procedures vital for effective deployment and sustained functionality. This article delves into the details of this critical piece of equipment, exploring its features, benefits, usage, and maintenance, offering insights relevant to both military personnel and those interested in similar flexible water storage solutions.

Understanding the 3000-Gallon Collapsible Fabric Tank

This robust, lightweight water storage solution represents a significant advancement in military logistics. The 3000-gallon capacity, coupled with its collapsible design, offers unmatched portability and efficiency compared to traditional rigid tanks. The NSN 5430-00-268-8187 ensures consistent identification and supply chain management within the US Army's inventory system. Key features highlighted in TM 5-5430-218-13 include:

- **Durable Fabric Construction:** The tank utilizes a specialized, reinforced fabric designed to withstand rough handling, exposure to the elements, and the weight of the stored water. This material is resistant to UV degradation,

puncture, and tearing.

- **Collapsible Design:** The tank's ability to collapse significantly reduces its storage volume and transportation weight, making it ideal for deployment in remote or challenging terrain. This feature is crucial for airlift and rapid deployment scenarios.
- **Easy Setup and Breakdown:** TM 5-5430-218-13 meticulously outlines the procedures for setting up and taking down the tank, emphasizing safety and efficiency. This ensures rapid deployment and minimizes downtime.
- **Multiple Fill and Drain Points:** The tank incorporates strategically placed fill and drain points for efficient water transfer and management.
- **Reinforced Lifting Points:** Proper lifting points, as specified in the TM, are critical to prevent damage during transport and handling.

Benefits of Utilizing Collapsible Fabric Water Tanks

The adoption of collapsible fabric water tanks, as detailed in TM 5-5430-218-13, offers numerous advantages over traditional rigid tanks:

- **Enhanced Portability and Transportability:** The reduced weight and volume significantly improve transportability by various means, including trucks, helicopters, and even mules in certain situations.
- **Cost-Effectiveness:** The lower transportation costs associated with smaller packed size contribute to overall cost savings.
- **Rapid Deployment:** Quick setup and breakdown translate to faster deployment times, a crucial factor in emergency situations.
- **Reduced Storage Space:** When collapsed, the tanks occupy minimal storage space, freeing up valuable room in depots and transport vehicles.
- **Durability and Longevity:** The robust fabric and design contribute to a long service life, minimizing replacement costs.

Maintenance and Repair Procedures (as per TM 5-5430-218-13)

The US Army Technical Manual TM 5-5430-218-13 dedicates considerable space to the proper maintenance and repair of the 3000-gallon collapsible fabric tank. This section underscores the importance of preventative maintenance for extending the

lifespan and operational readiness of the equipment. Key aspects include:

- **Regular Inspection:** Frequent visual inspections are critical for identifying potential issues such as punctures, tears, or signs of wear and tear.
- **Cleaning Procedures:** Regular cleaning and sanitization are essential to maintain water quality and prevent the growth of harmful bacteria.
- **Repair Procedures:** The manual provides detailed step-by-step instructions for addressing common damage, ranging from minor punctures to more significant repairs. This minimizes downtime and prolongs the tank's operational life.
- **Storage Procedures:** Proper storage techniques are outlined to protect the tank from the elements and prevent damage during periods of inactivity.

Water Storage Solutions in Modern Military Logistics

The 3000-gallon collapsible fabric water tank, as outlined in TM 5-5430-218-13, represents a key element in modern military logistics. Its flexibility, portability, and durability make it an invaluable asset in diverse operational environments. The ongoing development and refinement of such flexible water storage systems underscore the military's commitment to improving the efficiency and effectiveness of its logistical capabilities. The information in the manual, and the successful implementation of the system, demonstrates a commitment to adapting to evolving operational needs. Understanding the details within TM 5-5430-218-13 helps guarantee the reliable provision of potable water in challenging field conditions. This contributes to soldier well-being and operational success. The technical manual also provides critical information on safety procedures, ensuring responsible handling and preventing accidents.

Frequently Asked Questions

Q1: Where can I obtain a copy of TM 5-5430-218-13?

A1: Access to US Army Technical Manuals, including TM 5-5430-218-13, is typically restricted to authorized military personnel and government agencies. However, some sections might be available through public sources, but complete access is often limited for security and proprietary reasons.

Q2: What types of repairs can be performed in the field?

A2: TM 5-5430-218-13 details field-repairable items. Minor punctures and tears can often be repaired using specialized patching materials and techniques described in the manual. More significant damage might require specialized equipment or repair facilities.

Q3: What is the lifespan of a collapsible fabric water tank?

A3: The lifespan depends on usage, storage, and maintenance. With proper care and regular maintenance as outlined in the TM, these tanks can provide years of reliable service. Environmental conditions, however, can impact the lifespan.

Q4: Are there different sizes of these collapsible tanks available to the military?

A4: Yes, while TM 5-5430-218-13 specifically addresses the 3000-gallon model (NSN 5430-00-268-8187), the military utilizes various sizes of collapsible water tanks to meet different operational requirements.

Q5: What materials are used in the construction of this tank?

A5: TM 5-5430-218-13 provides details on the specific fabric used, including its composition, strength, and resistance to UV degradation and chemicals. This information is crucial for understanding the tank's durability and maintenance needs.

Q6: How is the water kept clean inside the tank?

A6: The manual emphasizes the importance of regular cleaning and sanitization. Procedures for cleaning and disinfecting the tank are crucial to maintain water quality and prevent the growth of harmful organisms. Proper maintenance contributes to soldier safety and operational health.

Q7: What are the safety precautions when handling and using this tank?

A7: TM 5-5430-218-13 outlines numerous safety precautions, including proper lifting techniques, avoiding overfilling, and handling the tank carefully to prevent punctures and damage. Understanding these precautions is critical to prevent accidents.

Q8: Can these tanks be used for purposes other than water storage?

A8: While primarily designed for water storage, the durability and flexibility of the fabric could potentially allow for adaptations or alternative uses, although this is not addressed in TM 5-5430-218-13 and would require careful consideration of material compatibility and safety.

Delving into the Depths of TM 5-5430-218-13: Understanding the US Army's 3000-Gallon Collapsible Fabric Tank

The US Army Technical Manual TM 5-5430-218-13 explains the specifications, functionality and upkeep of a essential piece of field equipment: the 3000-gallon collapsible fabric water tank, bearing the National Stock Number (NSN) 5430-00-268-8187. This seemingly straightforward piece of gear plays a significant role in supporting troops in outlying locations and arduous operational environments. This article will explore the manual's contents, highlighting its significance and providing understanding into the supply chain of water in military activities.

The manual itself serves as a complete guide, providing users with the expertise needed for effective deployment and operation of the collapsible tank. It includes a wide variety of topics, from initial setup and check procedures to periodic maintenance and repair methods. The material is clear, utilizing pictures and sequential instructions to help understanding.

One of the key elements highlighted in TM 5-5430-218-13 is the tank's unique construction. The use of durable fabric enables for simple transportation and preservation, a important consideration in defense settings where capacity is often restricted. The collapsible characteristic of the tank reduces size when inactive, making it ideal for transport by various means, including cars, helicopters, and even human conveying.

The manual also highlights the importance of precise servicing to confirm the tank's longevity. Regular inspections for holes and adequate sterilization are crucial to stop deterioration and pollution. The manual presents detailed instruction on repair procedures for frequent challenges, allowing troops to manage minor repairs on location without calling for professional aid.

Furthermore, the TM 5-5430-218-13 features security actions throughout its sections. The management of a large quantity of water poses likely hazards, and the manual directly outlines techniques to minimize these risks, ensuring the safeguarding of soldiers during both setup and use.

In summary, TM 5-5430-218-13 is more than just a engineering manual. It's a essential aid that supports the capability of military supply chain, ensuring that troops have availability to a vital supply: potable water. Its thorough extent of topics, joined with its accessible advice, makes it an essential aid for staff involved in the use of this essential piece of military

provisions.

Frequently Asked Questions (FAQs):

1. **Q: Where can I find a copy of TM 5-5430-218-13?** A: Access to official Army Technical Manuals may be restricted. You may be able to find copies through government archives or specialized military supply websites.
2. **Q: Can this tank be used for purposes other than water storage?** A: While designed primarily for water, its material properties may allow for other non-hazardous liquid storage, but this should only be done after careful consideration and possibly modifications. Refer to the manual.
3. **Q: What is the lifespan of this collapsible tank?** A: The lifespan depends on proper maintenance and usage. The manual provides guidance on expected lifespan and factors impacting it.
4. **Q: What happens if the tank gets damaged?** A: The manual outlines procedures for repairing minor damage. Significant damage might require replacement. Consult the manual for repair procedures.

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