

INCH-POUND

A-A-52022

January 14, 1991

## COMMERCIAL ITEM DESCRIPTION

## REPAIR OUTFIT, COLLAPSIBLE TANKS AND DRUMS (ROCTAD)

The General Services Administration has authorized the use of this commercial item description.

This description covers a repair outfit used to repair cuts, abrasions, and punctures on tanks, drums, and berm liners made of elastomer-coated fabrics.

Salient characteristics:

General. Each repair outfit shall be equipped to repair two seven-inch cuts and four punctures up to one-half inch in diameter. The repair outfit shall form a repair that is resistant to water and fuels conforming to MIL-T-83133 and MIL-F-46162. The repair outfit shall be capable of bonding to a coated fabric with any of the following base elastomers; nitrile, polyester polyurethane, polyether polyurethane, or neoprene. The repair outfit shall be capable of repairing tank and drum materials which have been contaminated with various fuels and water. The contractor shall certify that any substance released by a cured repair to 50 gallons of potable water to be below the EPA Maximum Contaminate Level when tested in accordance with National Sanitation Foundation (NSF) Standard 61 or equivalent. A cured repair shall not contaminate the fuel stored in a repaired container. Personnel wearing cold weather gloves or chemical protective gloves shall be capable of making a repair.

Adhesive. The adhesive shall not contain lead, benzene, chlorinated hydrocarbons, or other materials in amounts which may have an adverse affect on the health of personnel using the repair outfit. The contractor shall certify the adhesive compound, in its uncured and cured state, as safe when used in accordance with the contractor's instructions.

Two component adhesives shall be provided in pre-measured containers. The pre-measured containers shall enable the user to mix the proper proportions of each component to form the adhesive compound.

Beneficial comments, recommendations, additions, deletions, clarifications etc., and other data which improve this document should be sent by letter to: Commander, US Army Belvoir Research Development and Engineering Center, ATTN: STRBE-TSE, Fort Belvoir, VA 22060-5606.

AMSC N/A

FSC 5430

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Adhesive properties. The peel adhesion between a cured repair patch and a coated fabric sample shall be 30 lbs/in (min) when tested according to ASTM D 413 (machine method, 180 degrees). The coated fabric shall be a virgin sample conforming to MIL-T-52983 which is contaminated by soaking in diesel fuel conforming to MIL-F-46162 for seven days at room temperature and wiping dry. The coated fabric surface shall then be cleaned and prepared according to the contractor's set of instructions before applying the repair patch. All four exposed edges of the test sample shall be protected from the diesel fuel during soaking.

The peel adhesion between a cured repair patch and an aged coated fabric sample shall be 15 lbs/in (min) when tested according to ASTM D 413 (machine method, 180 degrees). The coated fabric shall be a virgin sample conforming to MIL-T-52983 which is aged by soaking in JP-8 or Jet A-1 for 14 days at 160 #F, then 42 days in distilled water. The coated fabric surface shall then be cleaned and prepared according to the contractor's set of instructions before applying the repair patch. All four exposed edges of the test sample shall be protected from the fuel during soaking.

Operating conditions: The repair outfit shall be capable of making a repair outdoors in dry weather between 40 #F and 80 #F. The repaired section of a tank, drum, or berm liner shall have as a minimum the same resistance to damage and leakage as the unrepaired section of fabric when operating under the following conditions:

1. Operational use of the equipment at ambient temperatures from -25 #F to +125 #F .
2. Folded storage of the equipment at ambient temperatures from -30 #F to +160 #F.
3. Continuous contact with rainwater and ground water.
4. Contact with fuel.

Components. Each repair outfit shall be equipped with all the tools and materials required to make a repair. As a minimum, the repair outfit shall consist of the following:

1. Patches (compatible for use with fuel and water) . . . . (2 ea.)
2. Surface roughing tool . . . . . (1 ea.)
3. Hand-held roller . . . . . (1 ea.)
4. Adhesive . . . . . (2 ea.)
5. Stirring stick or spatula . . . . . (2 ea.)
6. Protective gloves, disposable, large size . . . . . (4 pr.)
7. Adhesive applicator . . . . . (2 ea.)
8. Protective mask . . . . . (2 ea.)
9. Resealable water resistant carrying case . . . . . (1 ea.)
10. Set of instructions . . . . . (1 ea.)

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- 11. Degreaser/solvent cleaner with applicator . . . . . (not less than 4 fl oz.)
- 12. Mixing bowl (required if adhesive must be mixed by user) . . . . . (2 ea.)
- 13. Razor knife . . . . . (2 ea.)

Set of instructions. Instructions shall be provided on a weather resistant card or in a weather resistant pouch. In addition to the manufacturer's set of instructions, the pot life of the adhesive compound shall be listed at 45 #F, 72 #F, and 90 #F. Also, the cure time of a repair at 45 #F, 72 #F, and 90 #F shall be listed.

Carrying case. All contents of each repair outfit shall fit into one resealable water-resistant carrying case. Color of the carrying case shall be non-reflective tan. If the protective mask is made of paper it shall be packaged in a transparent virgin polyethylene sealed bag before being placed in the carrying case. In addition to any special marking specified in the contract, each carrying case shall be permanently marked with the following information:

- Repair Outfit for Collapsible Tanks and Drums
- NSN: (or FSCM)
- MFR/PN: (manufacturers reference/part number)
- Contract No.:
- Date of Manufacture:
- Expiration Date:

Shelf life. The contents of the repair outfit shall have a minimum shelf life of 4.5 years when stored at 72 #F.

Safety requirements. Material Safety Data Sheets in accordance with FED-STD-313 shall be provided to the Government point of delivery for each shipment of repair outfits and with each set of instructions.

Workmanship. Workmanship shall be in accordance with high grade industry practices to assure safety of personnel and serviceability.

Certification of commercial item. The contractor shall certify that the product offered to the Government meets the salient characteristics of this description and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices and is the same product as the manufacturer's current product offered by the contractor in the commercial marketplace for at least one year preceding the solicitation. The Government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units,

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provided they fall within specified tolerances using conversion tables contained in the latest revision of FED-STD-376, and all other requirements of this Commercial Item Description are met.

If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch-pound units, a request should be made to the contracting officer to determine if the product is acceptable.

The contracting officer has the option of accepting or rejecting the product.

Regulatory requirements. In accordance with section 23.403 of the Federal Acquisition Regulations, the Government's policy is to acquire items composed of the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition without adversely affecting performance requirements or exposing the supplier's employees to undue hazards from the recovered materials.

Packaging and marking: Military packaging shall be specified when shipments are to overseas Department of Defense (DoD) consignees. Commercial packaging may be specified for shipment to DoD consignees within the continental United States and the non-DoD consignees worldwide.

Military packaging: Repair outfits shall be preserved and packed to protect against physical damage and deterioration in an environment characterized by the following:

1. Multiple handling during transportation and in-transit storage.
2. Shock, vibration and static loading during worldwide shipment by all transport modes.
3. Weather exposure during shipment and in-transit storage.
4. Stacking loads during shipment and storage.
5. Uncontrolled warehouse storage for extended periods.

Commercial packaging: Repair outfits shall be prepared and packaged as applicable in accordance with the supplier's normal method of retail distribution. Shipping containers, when used, shall comply with the Uniform Freight and National Motor Freight Classification rules as applicable.

Marking for shipping and storage: Exterior packs shall be marked with item nomenclature, stock or part number, quantity per pack, and contract number as a minimum; additional marking shall be as specified in the contract or order. Exterior packs shall have the complete consignee's address. All marking shall be legible, in contrasting color, of an appropriate size, and waterproof.

Military activities. In addition to any special markings required in the contract or order, interior packages and shipping containers shall be marked in accordance with MIL-STD-129.

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Other agencies. Markings shall be sufficient to clearly and visually identify the contents of the packaging.

Notes:

1. The Government may elect not to evaluate a bid sample from an apparent low bidder for award for this solicitation if a determination of urgency is made by the contracting officer. The bid sample would then be evaluated prior to future solicitation for comparable items.
2. When the commercial item description is used for acquisition, the commercial item certification clause must appear in the solicitation.
3. Products and companies believed to be acceptable to this description:
  - a. ATL Emergency Repair Kit #201225 from ATL Inc., Spear Road Industrial Park, Ramsey, New Jersey 07446 (TEL: (201) 825-1400).
  - b. Belzona D&A Fluid Elastomer (TM) from Belzona of Virginia, P. O. Box 8869, Richmond, Virginia 23225 (TEL: (804) 276-9504).
4. NSF Standard 61 - Drinking Water System Components-Health Effects is available from the National Sanitation Foundation, 3475 Plymouth Rd, PO Box 1468, Ann Arbor, MI 48106.
5. FED-STD-313, FED-STD-376, MIL-F-46162, MIL-T-52983, MIL-T-83133, and MIL-STD-129, are available from the Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)
6. ASTM D 413 is available from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

MILITARY INTEREST:

Custodians

Army-ME  
Air Force-99

Review activities

Navy-MC  
Air Force-82  
DLA-CS

User activities

Navy-MC  
DLA-GS

CIVIL AGENCY COORDINATING ACTIVITY:

GSA-FSS

Preparing activity

Army-ME

Project 5430-0211