

INCH-POUND

A-A-52022A

December 2, 2003

SUPERSEDING

A-A-52022

January 14, 1991

## COMMERCIAL ITEM DESCRIPTION

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

The General Services Administration has authorized the use of this commercial item description, for all federal agencies.

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

2. CLASSIFICATION.

Type I - Turbine Fuel repair outfit (Ref. MIL-DTL-83133)

Type II - Diesel Fuel repair outfit (Ref. MIL-DTL-46162)

3. SALIENT CHARACTERISTICS.

3.1 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 outfits shall form a repair that is resistant to turbine fuel for Type I and referee grade diesel fuel for Type II. 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 that have been contaminated with various fuels and water. Personnel wearing cold weather gloves or chemical protective gloves shall be capable of making a repair.

- a. 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 (see 7.2.4).
- b. Cured repair shall not contaminate the fuel stored in a repaired turbine fuel container.
- c. Cured repair shall not contaminate the fuel stored in a repaired diesel fuel container.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data that may improve this document should be sent by letter to: U.S. Army Tank-automotive and Armaments Command, ATTN: AMSRD-TAR-E/ASI, 6501 E. 11 Mile Road, Warren, MI 48397-5000

AMSC N/A

FSC 5430

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

## A-A-52022A

3.2 Materials. 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 appropriate adhesive compound for type I, type II and type III repair outfits.

3.3 Adhesive properties.

3.3.1 Cured repair patch (diesel). The peel adhesion between a cured repair patch and a coated fabric sample shall be 30 pounds per inch (lbs/in.) (13.6 kilograms (kg) per 25 millimeters (mm)) minimum when tested in accordance with ASTM D413 (machine method, 180 degrees). The coated fabric shall be a virgin sample which is contaminated by soaking in diesel fuel conforming to MIL-DTL-46162 for seven days at room temperature and wiping dry. The coated fabric surface shall then be cleaned and prepared before applying the repair patch. All four exposed edges of the test sample shall be protected from the diesel fuel during soaking.

3.3.2 Cured repair patch (JP-8 or Jet A). The peel adhesion between a cured repair patch and an aged coated fabric sample shall be 15 lbs/in. (6.8 kg/25 mm) minimum when tested in accordance with ASTM D413 (machine method, 180 degrees). The coated fabric shall be a virgin sample that is aged by soaking in JP-8 or Jet A-1 for 14 days at 160 degrees Fahrenheit (°F) (71.1 degrees Celsius (°C)), then 42 days in distilled water. The coated fabric surface shall then be cleaned and prepared before applying the repair patch. All four exposed edges of the test sample shall be protected from the fuel during soaking.

3.4 Operating conditions. The repair outfit shall be capable of making a repair outdoors in dry weather between 40°F (4.4°C) and 80°F (26.7°C). 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:

- a. Operational use of the equipment at ambient temperatures from -25°F (-31.7°C) to +125°F (+51.7°C).
- b. Folded storage of the equipment at ambient temperatures from -30°F (-34.4°C) to +160°F.
- c. Continuous contact with rainwater and ground water.
- d. Contact with fuel.

3.5 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:

- |   |        |
|---|--------|
| a. Patches (compatible for use with fuel or water, as appropriate)..... | 2 each |
| b. Surface roughing tool.....   | 1 each |
| c. Hand-held roller.....  | 1 each |
| d. Adhesive.....  | 2 each |
| e. Stirring stick or spatula.....                                       | 2 each |

A-A-52022A

f.	Protective gloves, disposable, large size.....	4 pair
g.	Adhesive applicator.....	2 each
h.	Protective mask.....	2 each
i.	Resealable water resistant carrying case.....	1 each
j.	Set of instructions.....	1 each
k.	Degreaser/solvent cleaner with applicator.....	not less than 4 fl oz. (118.3 milliliters)
l.	Mixing bowl (required if adhesive must be mixed by user).....	2 each
m.	Razor knife.....	2 each

3.6 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 (7.2°C), 72°F (22.2°C), and 90°F (32.2°C). Also, the cure time of a repair at 45°F, 72°F, and 90°F shall be listed.

3.7 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, each carrying case shall be permanently marked with the following information:

- a. Repair Outfit for Collapsible Tanks and Drums, Type I or II.
- b. NSN: (or CAGE)
- c. MFR/PN: (manufacturers reference/part number)
- d. Contract No.:
- e. Date of Manufacture:
- f. Expiration Date:

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

4. **REGULATORY REQUIREMENTS**. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

5. **PRODUCT CONFORMANCE**. The products provided shall meet the salient characteristics of this CID, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial marketplace. (see 7.3) The Government reserves the right to require proof of such conformance.

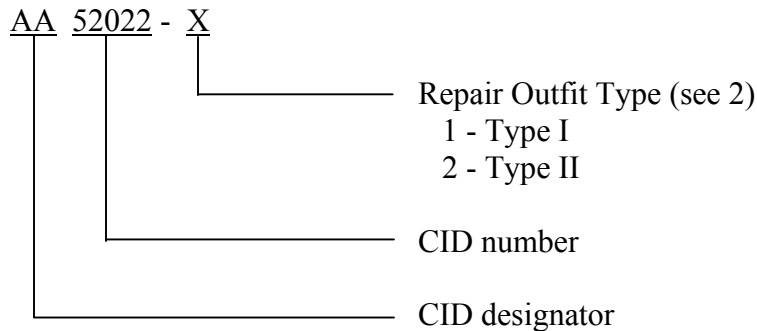
5.1 Responsibility for inspection. The contractor is responsible for the performance of all inspections (examinations and tests).

A-A-52022A

6 PACKAGING. Preservation, packing, and marking shall be as specified in the contract or order (see 7.3).

## 7. NOTES.

7.1 Part or Identification Number (PIN). The following PIN (see 7.3) procedure is for Government purposes and does not constitute a requirement for the contractor. The PINs to be used for Repair Outfit Types, Collapsible Tanks And Drums (ROCTAD) acquired to this CID are created as follows: Example of reference part number: AA52022-1



## 7.2 Source of documents.

7.2.1 The Code of Federal Regulations (CFR) may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402 or website:

<http://www.access.gpo.gov> .

7.2.2 ASTM D413, “Standard Test Methods for Rubber Property - Adhesion to Flexible Substrate” is available from ASTM International, PO Box C700, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 or website: <http://www.astm.org> .

7.2.3 MIL-DTL-83133 “Turbine Fuels, Aviation, Kerosene Types, NATO F-34(JP-8), NATO F-35, And JP-8 + 100,” and MIL-DTL-46162 “Fuel, Diesel, Referee Grade” are available from the Document Automation and Production Service, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094 or website: <http://assist.daps.dla.mil/online/start/>

7.2.4 NSF/ANSI Standard 61, “Drinking Water System Components – Health Effects” is available from National Sanitation Foundation International, P.O. Box 130140, 789 N. Dixboro Road, Ann Arbor, MI 48113-0140 or website: [www.nsf.org](http://www.nsf.org) .

7.3 Ordering data. The contract or order should specify the following:

- a. Title, number and date of this CID.
- b. Product performance provisions (see 5).

A-A-52022A

- c. Packaging requirements (see 6).
- d. Part or identification number (PIN) required (see 7.1).

7.4 Material safety data sheets (MSDS). Contracting officers should identify those activities requiring copies of MSDS's prepared in accordance with FED-STD-313. The pertinent Government mailing addresses for submission of data are listed in FED-STD-313; and 29 CFR 1910.1200 requires that the MSDS for each hazardous chemical used in an operation must be readily available to personnel using the material. Contracting officers should identify the activities requiring copies of the MSDS.

7.5 Key words.

Cuts  
Elastomers  
Patches  
Punctures

MILITARY INTERESTS:

Custodians:

Army – AT  
Navy - MC  
Air Force - 99

Review Activities:

Army - MI  
Air Force - 03, 84  
DLA - CC, GS, IS

CIVIL AGENCY COORDINATING ACTIVITY:  
GSA-FSS

Preparing Activity:  
Army - AT

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