

INCH-POUND

A-A-59434  
7 May 1999  
SUPERSEDING  
MIL-T-14608G  
22 June 1992

## COMMERCIAL ITEM DESCRIPTION

### TANK, TESTING, TIRE AND TUBE

The General Services Administration has authorized the use of this Commercial Item Description (CID) for all federal agencies.

1. SCOPE. This CID covers one type of tire and tube testing tank to be used for detecting and locating air leaks in inner tubes and mounted tubeless tires; and for testing for air leaks in valve stems and valve covers.

2. CLASSIFICATION. The tanks shall be available in the following sizes:

- a. Size 1 - this testing tank shall have the capacity to completely submerge inflated inner tubes and mounted tubeless tires up to, and including, 12.00 inch thread width by 24 inch wheel size. The tank shall have a minimum inside diameter of fifty-two (52) inches and a minimum depth of seventeen and one-half (17 ½) inches.
- b. Size 2 - this testing tank shall have the capacity to completely submerge inflated inner tubes and mounted tubeless tires up to, and including, 18.00 inch thread width by 24 inch wheel size. The tank shall have a minimum inside diameter of seventy-two (72) inches and a minimum depth of thirty (30) inches.

3. SALIENT CHARACTERISTICS.

3.1 Design and Fabrication. The tank shall be fabricated from a material thick enough to preclude any deformation caused by the liquid and loads imposed during testing, and may be reinforced throughout with corrosion resistant reinforcing. The tank shall be leak-proof when filled to the top with liquid. A drain plug or valve shall be provided to allow the tank to completely drain while the tank is in an installed position. The tank shall be capable of supporting the tube-submerging mechanism.

3.2 Tube-Submerging Unit. The tank shall have a tube-submerging unit (spider) which is attached to the tank. The spider shall allow for the visual inspection of the submerged tire or tube and may be operated by an air cylinder unit, which is used to raise and lower the spider. The spider shall be attached to the air

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cylinder unit in a manner to permit the rotation of the submerged tire or tube. The distance (clearance) between the spider in the raised position and the top of the tank shall be large enough to permit unrestricted loading of the specified inflated tire and inner tube sizes. The spider shall be designed so that it will not damage the tires or tubes being tested.

3.3 Air Cylinder Unit. The air cylinder unit shall operate within an air line pressure ranging from 100 pounds per square inch gage (psig) to 175 psig. The cylinder shall be capable of withstanding an air line pressure of 200 psig for a period of two (2) minutes without damage or leakage. The cylinder may be single or double acting. If single acting, the cylinder shall be provided with two coil extension springs or other device to act as retrievers, and shall be controlled by a two-way air valve, or an intake valve and an exhaust valve, or other mechanism. If a double acting cylinder is used, a three-way valve or other mechanism shall be provided to control the cylinder, to provide for extension, retraction, or hold the cylinder in an intermediate position.

3.3.1 Air Valve. The valve operating mechanism shall be mounted in an accessible position for hand operation without the use of tools and shall control the airflow in the cylinder. The air valve and cylinder unit shall be capable holding the spider and the tire or tube under test at any required depth, with a maximum allowable rise of one-half (1/2) inch during a twenty (20) minute period.

3.4 Fastening Devices. Screws, pins, bolts, and similar parts shall be installed with means for adjustment and for preventing loss of tightness. The methods for adjustment and for preventing loss of tightness shall be in accordance with accepted engineering standards and practices.

3.5 Accessory Support Stand. When specified, the size 1 tank shall be provided with a support stand. The stand may be either a structural part of the tank or a separate holding, support, stand. The stand shall be constructed of not less than four (4) legs, or other adequate means, to maintain the tank in a stable position during testing operations. The stand shall position the tank at a height of thirty-six (36),  $\pm$  six (6), inches when measured from the tank top to the floor level. The stand shall be capable of supporting the fully loaded tank without deformation or damage.

3.6 Toxic Chemicals/Hazardous Substances. The use of toxic chemicals, hazardous substances, or ozone depleting chemicals (ODC) will be avoided, when feasible.

#### 4. REGULATORY REQUIREMENTS.

4.1 Recycled/Recovered Materials. The offerer/contractor is encouraged to use recovered materials to the maximum extent practical, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

#### 5. QUALITY ASSURANCE PROVISIONS.

5.1 Product Conformance. The contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics of this CID, and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices, and is the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under provisions of the contract.

5.2 Market Acceptance. The following market acceptance criteria are necessary to document the quality of the product to be provided under this CID.

5.2.1 The producer/provider shall have demonstrated the capability to produce and/or provide similar commercial grade items that meet or exceed the requirements of this CID within the past five (5) years.

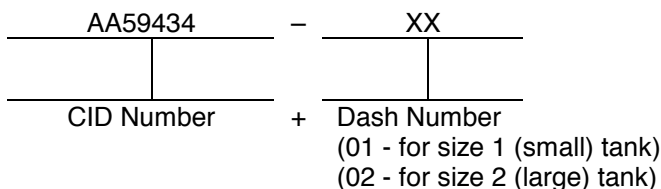
5.2.2 The producer/provider must adhere to the product conformance requirements above.

## 6. PACKAGING.

6.1 Preservation, Packing, and Marking. Preservation, packing, and marking shall be specified in the contract or order.

## 7. NOTES.

7.1 Part Identification Number (PIN). The PIN shall be used for Government purposes to buy commercial products described by this CID. The following part identification numbering procedure is for government purposes and does not constitute a requirement for the contractor.

PIN Construction

7.2 Ordering Data. The contract or order should specify the following:

- a. CID number, revision, and PIN.
- b. Requirement for support stand, size 1 tank only.
- c. Quality assurance provisions.
- d. Packaging requirements.

7.3 National Stock Numbers (NSNs). The following is a list of the identified NSNs assigned that correspond to this CID.

<u>NSN</u>	<u>Old PIN</u>	<u>New CID PIN</u>
4910-00-190-5235	MILT14608 SIZE 1	AA59434-01
4910-00-330-5441	MILT14608 SIZE 2	AA59434-02

7.4 Sources of Supply. The following is a list of suppliers that have provided testing tanks meeting the requirements of this CID to the Government in the past. This is not intended to be an all-inclusive list nor an endorsement of any of the listed suppliers and should not be used to restrict procurement from other qualified vendors.

<u>CAGE</u>	<u>COMPANY NAME</u>	<u>LOCATION</u>
0P568	Allied Metal Products and	Indianapolis, IN 46225-1816
54267	Orlotronics Corporation	Bridgeport, PA 19405-1815
83790	Randall Manufacturing Co., Inc.	Hillside, NJ 07205-1107
8B805	Eur-Pac Corporation	Brooklyn, NY 11222-3732
98897	Lockheed Martin Corporation	Marietta, GA 30063

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8. SOURCE OF DOCUMENTS.

8.1 The Federal Acquisition Regulation (FAR) 23.403 may be obtained from the Superintendent of Documents, US Government Printing Office, Washington, DC 20402.

MILITARY INTEREST:

Custodians:

Army - AL  
Air Force - 99  
DLA - CC

Review activities:

Army - CR4  
Air Force - 82

CIVIL AGENCY COORDINATION ACTIVITY:

GSA-FSS

Preparing activity:

DLA - CC

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