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[INCH-POUND]
A-A-60002
November 11, 1997
SUPERSEDING
MIL-M-17321F
30 September 1985

COMMERCIAL ITEM DESCRIPTION

MARKERS, TRAFFIC CONES

The General Services Administration has authorized the use of this commercial item description by all Federal agencies.

1. SCOPE. This commercial item description (CID) covers two sizes of conical traffic markers used in the maintenance of traffic control systems. The 18-inch (457 millimetre (mm)) markers are used primarily when painting traffic lines in order to keep cars off the wet paint. The 28-inch (711 mm) markers are used primarily for blocking off any type of area where construction work is being done.

2. CLASSIFICATION. Traffic markers shall be in the following sizes, as specified (see 7.3):

Size 1 - 18 inches (457 (mm).
Size 2 - 28 inches (711 mm).

3. SALIENT CHARACTERISTICS.

3.1 Standard commercial product. The traffic markers shall, as a minimum, be in accordance with the requirements of this commercial item description and shall be the manufacturer's standard commercial product. Additional or better features which are not specifically prohibited by this commercial item description but which are a part of the manufacturer's standard commercial product, shall be included in the traffic markers being furnished. A standard commercial product is a product which has been sold or is being currently offered for sale on the commercial market through advertisements or manufacturer's catalogs, or brochures, and represents the latest production model.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: Commanding Officer (Code 15E2), Naval Construction Battalion Center, 1000 23rd Avenue, Port Hueneme, CA 93043-4301, by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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3.2 Material. Traffic markers shall be made of either plastic or rubber.

3.2.1 Plastic. Plastic material used for the manufacture of traffic markers shall meet the physical properties in table I when tested in accordance with ASTM D 412 and ASTM D 2240.

TABLE I. Physical properties of plastic.

Property	Requirement
Minimum tensile strength	
Pounds per square inch (psi)	1,200
Kilopascal (kPa)	(8 274)
Minimum ultimate elongation, percent	200
Hardness of Shore A durometer, in points	
Conical section	70 ± 10
Base	80 ± 10

3.2.1.1 Color. The color for the plastic conical section shall be red-orange and permeate throughout the outer layer rather than appear only on its exterior surface. The inner liner may be translucent or white pigment fused to a red-orange fluorescent outer layer. The base shall be pigmented black or white or fluorescent red-orange.

3.2.1.2 Heat resistance. The traffic marker shall support itself and show no evidence of slump after eight hours at 160 degrees Fahrenheit (°F) (71 degrees Celsius (°C)).

3.2.1.3 Low temperature resistance. The traffic marker shall have an impact strength of 10 foot pounds at - 5 ° F (- 21 °C).

3.2.1.4 Design and construction. The plastic traffic markers shall be of single piece construction, having a square base integral with the fluorescent conical section.

3.2.2 Rubber. Rubber material shall meet the physical requirements when tested in accordance with ASTM D 412 and ASTM D 2240.

TABLE II. Physical properties of rubber.

Property	Requirement
Minimum tensile strength	1,000 psi (6 895 kPa)
Minimum ultimate elongation, percent	200
Hardness of Shore A durometer, in points	70 ± 5

3.2.2.1 Color. The color of the rubber traffic markers shall be orange. The orange color shall match the standards for Highway Orange, PR Color No. 6, as shown on Highway Orange Color Tolerance Chart.

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3.2.2.2 Accelerated aging. Changes in physical properties shall be not greater than the following when tested for 70 hours at 158 °F (70 °C) in accordance with ASTM D 573:

Tensile strength	25 percent
Ultimate strength	25 percent
Hardness	10 points

3.2.2.3 Design and construction. The rubber conical traffic markers shall be of single piece construction, integral with a square base.

3.3 Stacking. Traffic markers shall have a pattern of equally positioned spacers and feet to prevent sticking while in a stacked position.

3.4 Reflective collar. When specified (see 7.3), traffic cones with reflective collars conforming to Manual on Uniform Traffic Control Devices for Streets and Highways shall be furnished.

3.5 Identification marking. All traffic markers shall be marked with the year of manufacture and contractor's name or trademark so as to be readily identified with the contractor. The method of application shall ensure that the lettering cannot be removed without damaging the traffic markers.

3.6 Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, provided they fall within specified tolerances using conversion tables contained in the latest version of ASTM E 380, and all other requirements of this commercial item description including form, fit and function are met. If a product is manufactured to metric dimensions and these 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.

3.7 Workmanship. Traffic markers shall be free of bumps, ridges, or voids.

4. REGULATORY REQUIREMENTS.

4.1 Recovered materials. 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. QUALITY ASSURANCE PROVISIONS.

5.1 Product conformance. The products provided shall meet the salient characteristics of this commercial item description, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial market. The government reserves the right to require proof of such conformance.

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6. PACKAGING. The preservation, packing, and marking shall be as specified in the contract or order.

7. NOTES.

7.1 Part Identification Number (PIN). The following part identification numbering procedure is for government purposes and does not constitute a requirement for the contractor. The PIN to be used for items acquired to this description are created as follows:

AA60002 X

Size

CID number

7.1.1 PIN code identifier:

1 = Size 1
2 = Size 2

7.2 Source of documents.

7.2.1 The Federal Acquisition Regulation (FAR) and the Manual on Uniform Traffic Control Devices for Streets and Highways are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

7.2.2 Highway Orange Color Tolerance Chart is available from the U.S. Department of Transportation, Federal Highway Administration, Washington, DC 20402.

7.2.3 ASTM Standards are available from the American Society of Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

7.3 Ordering data. Acquisition documents should specify the following:

a. Title, number, and date of this document.
b. Size required (see 2.).
c. When traffic cones with reflective collars shall be furnished (see 3.4).

7.4 National Stock Numbers (NSNs). The following is a list of NSNs assigned which correspond to this CID. The list may not be indicative of all possible NSNs associated with this CID.

9905-00-424-9829	Size 1
9905-00-527-4997	Size 2

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MILITARY INTERESTS:

Custodians:
Army - GL
Navy - YD1
Air Force - 99

Review Activities:
Army - CE
Navy - MC
Air Force - 84

CIVIL AGENCY COORDINATING ACTIVITY:

GSA-FSS

Preparing Activity:
Navy - YD1

(Project 9905-0345)

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STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7.
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NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

I RECOMMEND A CHANGE:	1. DOCUMENT NUMBER	2. DOCUMENT DATE (YYMMDD)
	A-A-60002	971111

3. DOCUMENT TITLE

MARKERS, TRAFFIC CONES

4. NATURE OF CHANGE *(Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)*

5. REASON FOR RECOMMENDATION

6. SUBMITTER

a. NAME *(Last, First, Middle Initial)*	b. ORGANIZATION	
c. ADDRESS *(Include Zip Code)*	d. TELEPHONE (Include Area Code) (1) Commercial (2) AUTOVON *(if applicable)*	**7.DATE SUBMITTED** (YYMMDD)

8. PREPARING ACTIVITY

a. NAME	b. TELEPHONE *Include Area Code)*
R. E. PAMPLONA	(1) Commercial 805-982-5843 (2) AUTOVON 551-5843
c. ADDRESS *(Include Zip Code)* COMMANDING OFFICER, NCBC CODE 15E2D 1000 23RD AVENUE PORT HUENEME, CA 93043-4301	**IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT:** DEFENSE QUALITY AND STANDARDIZATION OFFICE 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22401-3466 Telephone (703) 756-2340 AUTOVON 289-2340