

[INCH-POUND]

A-A-55759

12 September 1995

SUPERSEDING

ZZ-R-765/15C

8 November 1988

COMMERCIAL ITEM DESCRIPTION

RUBBER, SILICONE, SHEET, SOLID, SHAPE 15

The General Services Administration has authorized the use of this Commercial Item Description as a replacement for ZZ-R-765/15C, which is cancelled.

1. SCOPE. This description covers a solid silicone rubber sheet of various classes and grades.
2. CLASSIFICATION. The silicone rubber shall be of the following classes and grades as specified. The designated grade number corresponds to the nominal Shore Durometer A hardness value.

Class 1A - Low temperature resistant

Grade - 40, 50, 60, 70 and 80

Class 1B - Low temperature resistant and low compression set at high temperature

Grade - 40, 50, 60, 70 and 80

Class 2A - High temperature resistant

Grade - 25, 40, 50, 60, 70 and 80

Class 2B - High temperature resistant and low compression set

Grade - 25, 40, 50, 60, 70 and 80

Class 3A - Low temperature, tear and flex resistant

Grade - 30, 50 and 60

Class 3B - Tear and flex resistant

Grade - 30, 50, 60, 70 and 80

3. SALIENT CHARACTERISTICS

3.1 Dimensions and tolerances. Dimensional and physical requirements shall conform to Figure 1. Dimensional tolerances shall conform to the applicable commercial tolerances specified in ZZ-R-765.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any other data which may improve this document should be sent to Defense General Supply Center (DGSC), Attn: DGSC-VCA, 8000 Jefferson Davis Highway, Richmond, VA 23297-5610.

AMSC N/A

FSC 9320

Distribution Statement A. Approved for public release, distribution is unlimited.

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3.2 Materials. Materials shall be silicone rubber formulated and processed to meet the physical and mechanical properties specified in Table I of ZZ-R-765, when tested in accordance with the ASTM test methods specified in Table IX of ZZ-R-765.

3.3 Color. Unless otherwise specified, the color of the silicone rubber shall be the natural color of the compound furnished.

3.4 Workmanship. The end product shall be clean, smooth finished, and free from dirt, flash or rough edges.

3.5 Marking. Unless otherwise specified (see ordering data), sheet material and strips (cut from sheet) shall be marked with the following information: Commercial Item Description number, class, grade, designations, and the supplier's designations. The class and grade designations separated by a dash, shall be enclosed within parentheses. The markings shall be legible and placed in rows of constantly recurring symbols from one end of the sheet to the other, spaced approximately 5 inches apart. The supplier's designation (compound number) shall appear immediately below the constantly recurring description symbols. The symbols shall be legible and shall be not less than 3/8 inches high. The symbols shall be applied by suitable means, using a black colored marking fluid to mark white colored silicones and a white colored marking fluid to mark other than white colored silicones. The marking shall not be obliterated by normal handling or by the action of petroleum-based oils.

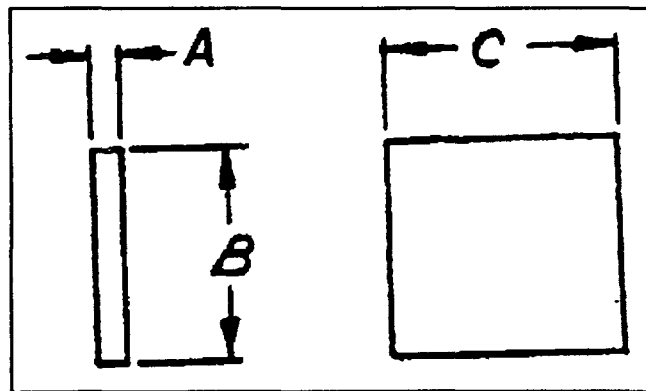


Figure 1 Dimensional and Physical Requirements

Figure 1 continued

PART NO. AAXXX15	A THICKNESS	B WIDTH	C LENGTH	TEMP RATING OF OF	NHR MIN MAX	MIN TENSILE STRENGTH P.S.I.	COLOR
001D5	0 015	36 000	36.000	-80 to 425	45 0 to 55 0	700	Natural
002D6	0 016	36 000	36 000	-80 to 425	55 0 to 65 0	650	Gray
003A4	0 020	36 000	36 000	-100 to 425	35 0 to 45 0	700	Natural
004F5	0 020	36 000	36 000	-94 to 400	45 0 to 55 0	1200	Natural
005D5	0 031	12 00	12 000	-80 to 425	45 0 to 55 0	700	Natural
006A7	0 031	24 000	36 000	-100 to 425	65 0 to 75 0	600	Gray
007F3	0.031	24 000	60 000	-94 to 400	25 0 to 35 0	1000	Natural
008A4	0 031	36 000	36.000	-100 to 425	35 0 to 45 0	700	Natural
009B4	0.031	36 000	36.000	-100 to 425	35.0 to 45 0	700	Natural
010C4	0 031	36 000	36 000	-80 to 425	35 0 to 45 0	700	Natural
011C7	0.031	36 000	36.000	-80 to 425	65 0 to 75 0	650	Natural
012D2	0.031	36 000	36 000	-80 to 425	15 0 to 30 0	700	Natural
013D4	0.031	36 000	36 000	-80 to 425	35 0 to 45 0	700	Natural
014D6	0.031	36 000	36 000	-80 to 425	55 0 to 65 0	650	Natural
015D7	0.031	36 000	36 000	-80 to 425	65 0 to 75 0	650	Natural
016E3	0 031	36 000	36 000	-130 to 400	20 0 to 35 0	850	Natural
017E5	0 031	36.000	36.000	-130 to 400	45 0 to 55.0	1200	Gray
018E6	0 031	36 000	36.000	-130 to 400	55 0 to 65 0	1100	Natural
019F5	0 031	36 000	36 000	-94 to 400	45 0 to 55 0	1200	Natural
020A5	0.040	36.000	36 000	-100 to 400	45 0 to 55 0	700	Natural
021D6	0 062	10 000	10.000	-80 to 425	55 0 to 65 0	650	Natural
022D5	0 062	12 000	120 000	-80 to 425	45 0 to 55 0	750	Natural
023B4	0.062	24.000	24 000	-100 to 425	35 0 to 45 0	700	Natural
024B4	0.062	24.000	24 000	-100 to 400	35 0 to 45 0	700	Natural
025C4	0.062	24 000	24.000	-80 to 425	35.0 to 45 0	700	Natural
026C5	0.062	24 000	24 000	-80 to 425	45.0 to 55 0	700	Natural
027C6	0.062	24 000	24.000	-80 to 425	55 0 to 65.0	650	Black
028D5	0.062	24.000	24.000	-80 to 425	45 0 to 55.0	700	Natural
029E5	0 062	24 000	24 000	-130 to 400	45 0 to 55 0	700	Natural
030F5	0 062	24 000	48 000	-94 to 400	45 0 to 55 0	1200	Gray
031A4	0 062	36 000	36 000	-100 to 425	35.0 to 45 0	700	Natural
032C4	0 062	36 000	36 000	-80 to 400	35 0 to 45 0	700	Natural
033C5	0 062	36 000	36 000	-80 to 425	45 0 to 55 0	700	Natural
034C8	0 062	36 000	36 000	-80 to 425	75 0 to 85 0	650	Natural
035D2	0 062	36 000	36 000	-80 to 425	15 0 to 30 0	700	Natural

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Figure 1 continued

PART NO. AAXXX15	A THICKNESS	B WIDTH	C LENGTH	TEMP RATING OF OF	NHR MIN MAX	MIN TENSILE STRENGTH P.S.I.	COLOR
036D4	0 062	36 000	36 000	-80 to 425	35 0 to 45 0	700	Olive
037D5	0 062	36 000	36 000	-80 to 425	45 0 to 55 0	700	Natural
038D6	0 062	36 000	36 000	-80 to 425	55 0 to 65 0	650	Natural
039F3	0 062	36 000	36 000	-94 to 400	25 0 to 35 0	1000	Natural
040F5	0 062	36 000	36 000	-94 to 400	45 0 to 55 0	1200	Natural
041F6	0 062	36 000	36 000	-94 to 400	45 0 to 55 0	700	Natural
042C5	0 062	36 000	36 000	-80 to 425	45 0 to 55 0	700	Gray
043E3	0 062	36 000	36 000	-130 to 400	20 0 to 35 0	850	Natural
044E5	0.062	36 000	A/A	-130 to 400	45 0 to 55 0	1200	Natural
045B4	0 062	40 000	72 000	-100 to 425	35 0 to 45 0	700	Natural
046A5	0 062	24 000	24 000	-100 to 425	45 0 to 55 0	700	Natural
047B4	0 080	36 000	36 000	-100 to 425	35 0 to 45 0	700	Black
048C5	0 093	36 000	36 000	-80 to 425	45 0 to 55 0	700	Natural
049B4	0 093	36 000	36 000	-100 to 425	35 0 to 45 0	700	Natural
050C4	0 093	36 000	36 000	-80 to 425	35 0 to 45 0	700	Natural
051C5	0 093	36 000	36 000	-80 to 425	45 0 to 55 0	700	Black
052D4	0 093	36 000	36 000	-80 to 425	35 0 to 45 0	700	Natural
053D5	0 093	36 000	36 000	-80 to 425	45 0 to 55 0	700	Natural
054F3	0 093	36 000	36 000	-94 to 400	25 0 to 35 0	1000	Natural
055F6	0 093	36 000	36 000	-94 to 400	55 0 to 65 0	1200	Natural
056F6	0 093	36 000	A/A	-130 to 425	20 0 to 35 0	850	Natural
057D5	0 100	36 000	36 000	-80 to 425	45 0 to 55 0	700	White
058D7	0 125	12 000	12 000	-80 to 425	65 0 to 75 0	650	Natural
059C8	0.125	12 000	24 000	-80 to 400	75 0 to 85 0	650	Black
060A5	0.125	24 000	24 000	-100 to 325	45 0 to 55 0	700	Natural
061A4	0 125	24 000	36 000	-100 to 425	35 0 to 45 0	700	Natural
062A6	0 125	36 000	36 000	-100 to 425	55 0 to 65 0	750	Natural
063C2	0 125	36 000	36 000	-80 to 425	15 0 to 30 0	700	Natural
064C5	0 125	36 000	36 000	-80 to 425	45 0 to 55 0	700	Natural
065C6	0 125	36 000	36 000	-80 to 425	55 0 to 65 0	650	Black
066D5	0 125	36 000	36 000	-80 to 425	45 0 to 55 0	700	White
067F3	0 125	36 000	36 000	-94 to 400	25 0 to 35 0	1000	Black
068F5	0 125	36 000	36 000	-94 to 400	55 0 to 65 0	1200	Natural
069F6	0 125	36 000	36 000	-94 to 400	55 0 to 65 0	1000	Natural
070F8	0 125	36 000	36 000	-94 to 400	75 0 to 85 0	800	Natural

Figure 1 continued

PART NO. AAXXX15	A THICKNESS	B WIDTH	C LENGTH	TEMP RATING OF OF	NHR MIN MAX	MIN TENSILE STRENGTH P.S.I.	COLOR
071E3	0 125	36 000	A/A	-130 to 425	20 0 to 35 0	850	Natural
072C8	0 125	48 000	48 000	-80 to 425	75 0 to 85 0	650	White
073D5	0 150	24 000	24 000	-80 to 425	45 0 to 55 0	700	White
074D4	0 180	36 000	36 000	-80 to 425	35 0 to 45 0	700	White
075C6	0 188	36 000	36 000	-80 to 425	55 0 to 65 0	650	Natural
076A4	0 250	A/A	A/A	-100 to 425	35 0 to 45 0	700	Natural
077C5	0 250	12 000	12 000	-80 to 425	45 0 to 55 0	750	Natural
078A6	0 250	36.000	36 000	-100 to 425	55 0 to 65 0	650	Natural
079C5	0.250	36 000	36 000	-80 to 425	45 0 to 55 0	700	Natural
080D4	0 250	36 000	36 000	-80 to 425	35 0 to 45 0	750	Natural
081D6	0 250	36 000	36 000	-80 to 425	55 0 to 65 0	650	Olive Drab
082F5	0.250	36 000	36 000	-94 to 400	45 0 to 55 0	1200	Natural
083F8	0 250	36 000	36.000	-94 to 400	75 0 to 85 0	800	Natural
084C6	0 250	36 000	36 000	-80 to 425	55 0 to 65 0	650	Natural
085E3	0.250	486 000	48.000	-130 to 400	20 0 to 35 0	850	Natural
086E5	0.281	36 000	36 000	-130 to 400	45 0 to 55 0	1200	Natural
087C5	0 320	12 000	12.000	-80 to 425	45 0 to 55 0	700	Natural
088B5	0 393	11 790	11 790	-100 to 425	45 0 to 55 0	700	Natural
089F5	0 438	24 000	24 000	-94 to 400	45 0 to 55 0	1200	Gray
090F5	0 625	24 000	24 000	-94 to 400	45 0 to 55 0	1200	Natural
091C4	0 625	36 000	36 000	-80 to 425	35 0 to 45 0	700	White
092F5	0 750	24 000	48.000	-94 to 400	45 0 to 55 0	1200	Gray
093F6	1.000	24 000	24.000	-94 to 425	55 0 to 65 0	1200	Natural
094C4	1 250	36.000	36 000	-80 to 425	35 0 to 45 0	700	Natural
095F3	0 080	36 000	A/A	-94 to 400	25.0 to 35 0	1000	Gray
096B4	0 125	36 000	36.000	-100 to 425	35 0 to 45.0	700	Natural
097B4	0 250	36.000	36.000	-100 to 425	35 0 to 45 0	700	Natural
098D5	0 050	36 000	36.000	-80 to 425	45 0 to 55 0	700	Natural
099B6	0 031	36 000	36 000	-100 to 425	55 0 to 65 0	700	Gray

- NOTES:
1. Unless otherwise noted, dimensions are in inches.
 2. Surface condition. Smooth.
 3. Surface condition location: Both sides.
 4. Color location Both sides.
 5. NHR Nonmetallic hardness rating, Shore Durometer A
 6. Minimum tensile strength: psi.
 7. A/A: Any acceptance.

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).

4.2 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 Federal Standard No 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.

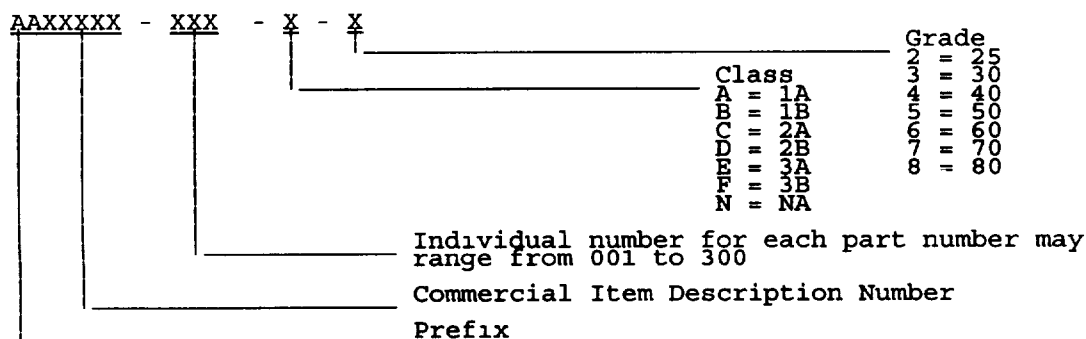
5.1 Contractor certification. The contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics of this Commercial Item Description, and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance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

5.2 Market acceptability. The item offered must have been sold to the Government or commercial market and reflect demonstrated reliability and serviceability.

6 PRESERVATION, PACKAGING, PACKING AND MARKING Preservation, packaging, packing and marking for shipment shall be in accordance with American Society for Testing and Materials (ASTM) D 3951 or 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 PINs to be used for items acquired to this description are created as follows:



7 2 Addresses for obtaining reference documents

SAE

SAE
400 Commonwealth Drive
Warrendale PA 15096-0001

ASTM

American Society for Testing and Materials
1916 Race Street
Philadelphia PA 19103

7.3 Ordering data.

- a) Title, number, and date of this description
- b) Class and grade required.
- c) Length.
- d) Color required if other than natural color of compound furnished.
- e) Marking if different (see 3.5)
- f) Specify any special packaging requirements
- g) Specify any additional quality assurance provisions, deemed necessary, covered by ZZ-R-765.
- h) Contracting officer may request proof of certification of commercial item prior to first contract delivery.

7.4 Utilization caution Use of this material in items that may come in contact with human skin, food, or potable water is not recommended without prior approval of the appropriate medical service.

MILITARY INTEREST:

CUSTODIANS:

Army - MR
Navy - AS
Air Force - 20

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FSS

PREPARING ACTIVITY

DLA - GS

(Project No. 9320-1122)