FEDERAL SUPPLY CLASS
5970

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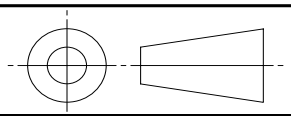
ISSUED 2004-04

THIRD ANGLE PROJECTION



CUSTODIAN: SAE AE-8/AE-8C2

PROCUREMENT SPECIFICATION: MIL-I-23053

SAE Aerospace
An SAE International Group

# AEROSPACE STANDARD

INSULATION SLEEVING,
ELECTRICAL, NONHEAT SHRINK,
SILICONE RUBBER, FLEXIBLE

**AS85080/2**
SHEET 1 OF 3



**TO PLACE A DOCUMENT ORDER:** **Tel: 877-606-7323 (inside USA and Canada)** **Tel: 724-776-4970 (outside USA)**
**Fax: 724-776-0790** **Email: custsvc@sae.org** **SAE WEB ADDRESS: http://www.sae.org**

REQUIREMENTS:

CONTINUOUS OPERATING TEMPERATURE RANGE: -75°C (-103°F) TO +175°C (347°F)

MODE OF SHRINKAGE: THE HEATLESS SHRINK TUBING SHALL RECOVER TO A PREDETERMINED DIAMETER UPON EXPOSURE TO THE ATMOSPHERE. NO EXTERNAL SOURCES OF HEAT ARE REQUIRED.

COLOR: THE TUBING SHALL BE FURNISHED IN A BLACK COLOR THAT CONFORMS TO THE REQUIREMENTS OF CLASS II OF MIL-STD-104.

LONGITUDINAL CHANGE: +3%
-10%

MILITARY PART NUMBER: THE MILITARY PART NUMBER SHALL CONSIST OF THE BASIC NUMBER OF THIS SPECIFICATION SHEET AND DASH NUMBERS AS SHOWN BELOW:

M85080/2 - XXX - X
- X: COLOR CODE DESIGNATOR (SEE 1.2.2)
- XXX: SIZE IDENTIFIER (TABLE I)
- X: CLASS (WHERE NO CLASSES ARE SPECIFIED, THE NUMERIC "0" SHALL BE USED)
- M85080/2: SPECIFICATION SHEET

EXAMPLE: BLACK, 0.27 INCH AS SUPPLIED I.D. SLEEVING SHALL BE IDENTIFIED AS M85080/2-005-0.

TABLE I. DIMENSIONS (INCHES) 1/

| MILITARY PART NUMBER 2/ | AS SUPPLIED I.D. MIN 3/ | AFTER UNRESTRICTED SHRINKAGE I.D. MAX | AFTER UNRESTRICTED SHRINKAGE WALL THICKNESS 4/ |
|---|---|---|---|
| M85080/2-001-0 | .05 | .031 | .020 ± .010 |
| M85080/2-002-0 | .09 | .062 | .020 ± .010 |
| M85080/2-003-0 | .13 | .093 | .025 ± .010 |
| M85080/2-004-0 | .18 | .125 | .035 ± .010 |
| M85080/2-005-0 | .27 | .187 | .045 ± .010 |
| M85080/2-006-0 | .36 | .250 | .045 ± .010 |
| M85080/2-007-0 | .54 | .375 | .055 ± .010 |
| M85080/2-008-0 | .72 | .500 | .065 ± .010 |
| M85080/2-009-0 | .91 | .625 | .070 ± .010 |
| M85080/2-010-0 | 1.10 | .750 | .090 ± .015 |
| M85080/2-011-0 | 1.45 | 1.000 | .107 ± .020 |
| M85080/2-012-0 | 1.81 | 1.250 | .110 ± .020 |
| M85080/2-013-0 | 2.18 | 1.500 | .110 ± .020 |
| M85080/2-014-0 | 2.54 | 1.750 | .110 ± .020 |
| M85080/2-015-0 | 2.90 | 2.000 | .110 ± .025 |

1/ DIAMETER LIMITS FOR OBJECT TO BE ENCLOSED SHOULD BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.

2/ THE COLOR CODE IDENTIFIED IS THE STANDARD PROCUREMENT COLOR.

3/ THE INNER DIAMETER OF THE SLEEVE MAY BE MECHANICALLY EXPANDED 3.0X THE RECOVERED INSIDE DIAMETER WHEN IN THE AS-SUPPLIED CONDITION. THE MANUFACTURER SHOULD BE CONSULTED FOR SPECIAL APPLICATIONS AND RECOMMENDATIONS.

4/ WALL SHRINKAGE WILL BE LESS IF SHRINKAGE IS RESTRICTED.

UNRESTRICTED SHRINKAGE: 4.6.3.13; 23° ± 1°C (73.4° ± 2°F) FOR 12 HOURS.