

REV.
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AS23053™/1

FEDERAL SUPPLY CLASS
5970

RATIONALE

THE FLAMMABILITY TEST PROCEDURE IS REQUIRED TO PERFORM THIS TEST.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS23053.

REQUIREMENTS:

- DIMENSIONS AND PROPERTIES IN INCH/POUND UNITS AND THE FAHRENHEIT TEMPERATURES ARE PRIMARY; DIMENSIONS AND PROPERTIES IN SI UNITS AND THE CELSIUS TEMPERATURES ARE SHOWN AS THE APPROXIMATE EQUIVALENTS OF THE PRIMARY UNITS AND ARE PRESENTED ONLY FOR INFORMATION.
- POLYMER TYPE: THE BASE ELASTOMER USED IN FORMULATING THIS SLEEVING SHALL BE A CROSSLINKED CHLORINATED POLYOLEFIN.
- CONTINUOUS OPERATING TEMPERATURE RANGE:
CLASS 1: -67 TO +194 °F (-55 TO + 90 °C)
CLASS 2: -94 TO +250 °F (-70 TO + 121 °C)
- COLOR: THE SLEEVING SHALL BE FURNISHED IN A BLACK COLOR THAT CONFORMS TO CLASS II OF MIL-STD-104 (SEE 1.3).
- CLASS: THE SLEEVING SHALL BE FURNISHED IN THE FOLLOWING CLASSES, AS SPECIFIED (SEE 7.3 A):
CLASS 1 – NORMAL OPERATING TEMPERATURE
CLASS 2 – EXTENDED OPERATING TEMPERATURE

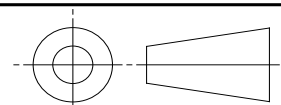
NOTICE: CLASS 1 SLEEVING BECAUSE OF ITS TEMPERATURE LIMITATIONS SHOULD NOT BE CONSIDERED FOR NEW DESIGN APPLICATIONS.

CLASS 2 SLEEVING CAN BE SUBSTITUTED FOR CLASS 1 SLEEVING.
- LONGITUDINAL CHANGE: +1, -10%
- DIMENSIONAL LIFE: THE DIMENSIONAL LIFE OF A PRODUCT APPLIES TO THE EXPANDED I.D., RECOVERED I.D. AND WALL THICKNESS DIMENSIONS OF THE PRODUCT AS SOLD BY THE MANUFACTURER, DISTRIBUTORS AND REBRAND DISTRIBUTORS. AS23053/1 PRODUCTS CAN BE EXPECTED TO HAVE A MINIMUM DIMENSIONAL LIFE OF 1 YEAR WHEN STORED BETWEEN 32 TO 95 °F (0 TO 35 °C). PRODUCTS STORED ABOVE THESE CONDITIONS MAY NOT MEET THE MINIMUM EXPANDED I.D. REQUIREMENTS OF THE DETAIL SPECIFICATION. A PRODUCT MAY BE USED BY THE FINAL PURCHASER BEYOND THE EXPECTED MINIMUM DIMENSIONAL LIFE, AS LONG AS THE EXPANDED I.D., RECOVERED I.D. AND WALL THICKNESS OF THE PRODUCT MEET THE REQUIREMENTS OF THIS SPECIFICATION AT THE TIME OF USE.

NOTE: THE TERM "CHLORINATED POLYOLEFIN" AS USED IN THIS SPECIFICATION INCLUDES COPOLYMERS, BLENDS, MODIFIED CHLORINATED POLYOLEFINS, AND POLYCHLOROPRENE.

SAE values your input. To provide feedback on this Technical Report, please visit
<http://standards.sae.org/AS23053/1A>

THIRD ANGLE PROJECTION



CUSTODIAN: AS-8/AE-8D

PROCUREMENT SPECIFICATION: AS23053



AEROSPACE STANDARD

INSULATION SLEEVING, ELECTRICAL, HEAT SHRINKABLE, CROSSLINKED CHLORINATED POLYOLEFIN, FLEXIBLE

AS23053™/1
SHEET 1 OF 4

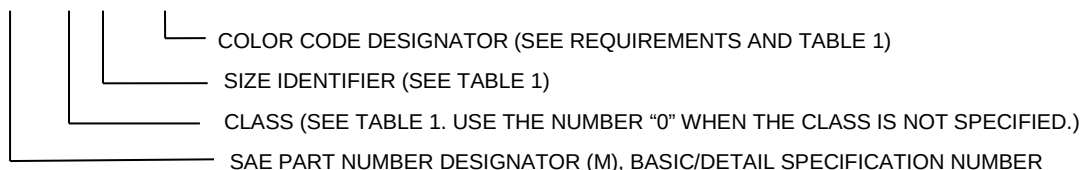
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Documents

8. PART NUMBER: THE PART NUMBER SHALL BE AS LISTED BELOW:

M23053/1 - X XX - X



EXAMPLE: CLASS 2, BLACK, 1.000 INCH (25.4 MM) AS SUPPLIED ID SLEEVING SHALL BE IDENTIFIED AS M23053/1-207-0.

9. UNRESTRICTED SHRINKAGE (SEE AS23053) SAMPLE PREPARATION CONDITION: 347 °F ± 4 °F (175 °C ± 2 °C) FOR 10 MINUTES, MAXIMUM.

TABLE 1 - CONSTRUCTION DETAILS, INCH (MM) ^{1/}

PART NUMBER 3/	AS SUPPLIED ID MINIMUM	AFTER UNRESTRICTED SHRINKAGE	
		ID MAXIMUM	WALL THICKNESS 2/
CLASS 1			
M23053/1-101-0	.250 (6.4)	.143 (3.6)	.035 ± .010 (0.9 ± 0.3)
M23053/1-102-0	.375 (9.5)	.211 (5.4)	.040 ± .010 (1.0 ± 0.3)
M23053/1-103-0	.500 (12.7)	.286 (7.3)	.048 ± .015 (1.2 ± 0.4)
M23053/1-104-0	.625 (15.9)	.357 (9.1)	.052 ± .015 (1.3 ± 0.4)
M23053/1-105-0	.750 (19.1)	.428 (10.9)	.057 ± .015 (1.4 ± 0.4)
M23053/1-106-0	.875 (22.2)	.500 (12.7)	.065 ± .020 (1.7 ± 0.5)
M23053/1-107-0	1.000 (25.4)	.570 (14.5)	.070 ± .020 (1.8 ± 0.5)
M23053/1-108-0	1.250 (31.8)	.714 (18.1)	.087 ± .020 (2.2 ± 0.5)
M23053/1-109-0	1.500 (38.1)	.857 (21.8)	.095 ± .020 (2.4 ± 0.5)
M23053/1-110-0	1.750 (44.5)	1.000 (25.4)	.107 ± .020 (2.7 ± 0.5)
M23053/1-111-0	2.000 (50.8)	1.140 (29.0)	.110 ± .020 (2.8 ± 0.5)
M23053/1-112-0	3.000 (76.2)	1.710 (43.4)	.125 ± .020 (3.2 ± 0.5)
M23053/1-113-0	4.000 (101.6)	2.280 (57.9)	.140 ± .020 (3.6 ± 0.5)
CLASS 2			
M23053/1-201-0	.250 (6.4)	.143 (3.6)	.035 ± .010 (0.9 ± 0.3)
M23053/1-202-0	.375 (9.5)	.211 (5.4)	.040 ± .010 (1.0 ± 0.3)
M23053/1-203-0	.500 (12.7)	.286 (7.3)	.048 ± .015 (1.2 ± 0.4)
M23053/1-204-0	.625 (15.9)	.357 (9.1)	.052 ± .015 (1.3 ± 0.4)
M23053/1-205-0	.750 (19.1)	.428 (10.9)	.057 ± .015 (1.4 ± 0.4)
M23053/1-206-0	.875 (22.2)	.500 (12.7)	.065 ± .020 (1.7 ± 0.5)
M23053/1-207-0	1.000 (25.4)	.570 (14.5)	.070 ± .020 (1.8 ± 0.5)
M23053/1-208-0	1.250 (31.8)	.714 (18.1)	.087 ± .020 (2.2 ± 0.5)
M23053/1-209-0	1.500 (38.1)	.857 (21.8)	.095 ± .020 (2.4 ± 0.5)
M23053/1-210-0	1.750 (44.5)	1.000 (25.4)	.107 ± .020 (2.7 ± 0.5)
M23053/1-211-0	2.000 (50.8)	1.140 (29.0)	.110 ± .020 (2.8 ± 0.5)
M23053/1-212-0	3.000 (76.2)	1.710 (43.4)	.125 ± .020 (3.2 ± 0.5)
M23053/1-213-0	4.000 (101.6)	2.280 (57.9)	.140 ± .020 (3.6 ± 0.5)

^{1/} DIAMETER LIMITS FOR OBJECT TO BE ENCLOSED SHALL BE AS RECOMMENDED IN TECHNICAL DATA.

^{2/} WALL THICKNESS VALUES ARE LESS WHEN SHRINKAGE IS RESTRICTED.

^{3/} THE COLOR CODE IDENTIFIED IS THE STANDARD ACQUISITION COLOR. SEE AS23053 1.3.

	AEROSPACE STANDARD	AS23053™/1 SHEET 2 OF 4	REV. A
	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINKABLE, CROSSLINKED CHLORINATED POLYOLEFIN, FLEXIBLE		



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