

RATIONALE

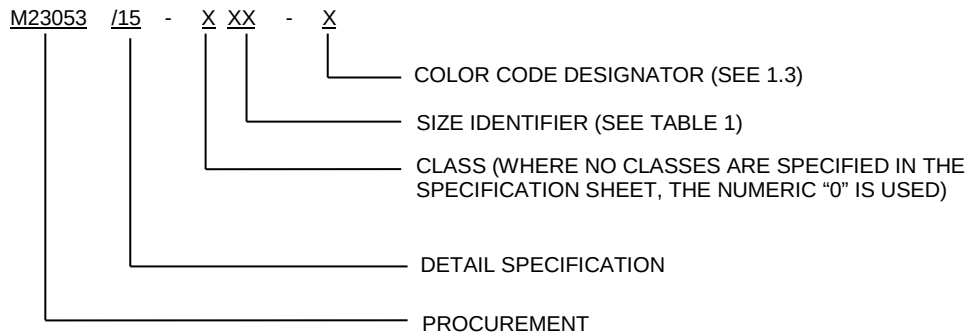
THIS IS A CONVERSION OF AMS-DTL-23053/15 INTO AN AEROSPACE STANDARD WHICH INCLUDES QUALIFICATION AND REQUIREMENTS FOR A QUALIFIED PRODUCTS LIST.

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 POLYMER USED IN FORMULATING THE OUTER WALL OF THIS SLEEVING SHALL BE A POLYOLEFIN.
- CONTINUOUS OPERATING TEMPERATURE RANGE: -67 TO +230 °F (-55 TO +110 °C).
- COLOR: THE HEAT SHRINKABLE SLEEVING SHALL BE FURNISHED IN COLORS THAT CONFORM TO THE REQUIREMENTS OF CLASS II OF MIL-STD-104. BLACK SHALL BE THE STANDARD ACQUISITION COLOR (SEE 1.3 AND 3.3.3).
- CLASSES: THE SLEEVING SHALL BE FURNISHED IN THE FOLLOWING CLASSES, AS SPECIFIED (SEE 7.3A):
CLASS 1 - HEAVY WALL
CLASS 2 - MEDIUM WALL
- LONGITUDINAL CHANGE: +1 TO -15%.
- ADHESIVE: ADHESIVE IS FOR PRESSURE RETENTION AND LOAD BEARING APPLICATIONS.
- SEALANT: SEALANT IS FOR WATER HOLD OUT APPLICATIONS.
- PART NUMBER: THE PART NUMBER SHALL BE AS LISTED BELOW:

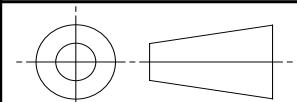


EXAMPLE: CLASS 1, BLACK SLEEVING, 3.00 INCH (76.2 MM) AS SUPPLIED ID SLEEVING SHALL BE IDENTIFIED AS M23053/15-105-0.

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

For more information on this standard, visit
<https://www.sae.org/standards/content/AS23053/15/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8D

PROCUREMENT SPECIFICATION: AS23053



AEROSPACE STANDARD

INSULATION SLEEVING, ELECTRICAL, HEAT SHRINKABLE, POLYOLEFIN, HEAVY-WALL, COATED, FLEXIBLE, OUTER WALL CROSSLINKED

AS23053™/15

SUPERSEDES AMS-DTL-23053/15A

SHEET 1 OF 1

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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. AS23053/15 PRODUCTS CAN BE EXPECTED TO HAVE A MINIMUM DIMENSIONAL LIFE OF 2 YEARS 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.
11. UNRESTRICTED SHRINKAGE: TEST METHOD 5.5.2; 392 °F $\pm$ 4 °F (200 °C $\pm$ 2 °C) FOR 10 MINUTES MAXIMUM.

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

PART NUMBER <u>4/</u>	AS SUPPLIED ID MINIMUM <u>3/</u>	AFTER UNRESTRICTED SHRINKAGE	
		ID MAXIMUM	WALL THICKNESS MINIMUM <u>2/</u>
<u>CLASS 1</u>			
M23053/15-101-0	.750 (19.1)	.220 (5.6)	.070 (1.8)
M23053/15-102-0	1.100 (27.9)	.375 (9.5)	.080 (2.0)
M23053/15-103-0	1.500 (38.1)	.500 (12.7)	.095 (2.4)
M23053/15-104-0	2.000 (50.8)	.750 (19.1)	.105 (2.7)
M23053/15-105-0	3.000 (76.2)	1.250 (31.8)	.105 (2.7)
M23053/15-106-0	4.000 (101.6)	1.750 (44.5)	.105 (2.7)
M23053/15-107-0	.300 (7.6)	.100 (2.5)	.035 (0.9)
M23053/15-108-0	.400 (10.2)	.150 (3.8)	.040 (1.0)
M23053/15-109-0	1.300 (33.0)	.375 (9.5)	.080 (2.0)
M23053/15-110-0	1.700 (43.2)	.500 (12.7)	.105 (2.7)
M23053/15-111-0	2.700 (68.6)	.900 (22.9)	.105 (2.7)
M23053/15-112-0	4.500 (114.3)	1.750 (44.5)	.115 (2.9)
<u>CLASS 2</u>			
M23053/15-201-0	.400 (10.2)	.150 (3.8)	.040 (1.0)
M23053/15-202-0	.750 (19.1)	.220 (5.6)	.040 (1.0)
M23053/15-203-0	1.100 (27.9)	.375 (9.5)	.070 (1.8)
M23053/15-204-0	1.300 (33.0)	.375 (9.5)	.070 (1.8)
M23053/15-205-0	1.500 (38.1)	.500 (12.7)	.080 (2.0)
M23053/15-206-0	1.700 (43.2)	.500 (12.7)	.095 (2.4)
M23053/15-207-0	2.700 (68.6)	.900 (22.9)	.105 (2.7)
M23053/15-208-0	2.000 (50.8)	.750 (19.1)	.095 (2.4)

^{1/} Diameter limits for objects to be enclosed shall be as recommended in technical data.

^{2/} Wall thickness values are less when shrinkage is restricted.

^{3/} As supplied ID is for uncoated product. An allowance of approximately 0.050 inch (1.3 mm) may be necessary depending on coating.

^{4/} The color indicated is the standard color (see 1.3).

	AEROSPACE STANDARD	AS23053™/15 SHEET 2 OF 4 	
	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINKABLE, POLYOLEFIN, HEAVY-WALL, COATED, FLEXIBLE, OUTER WALL CROSSLINKED		