



Prepared By: Engineering Staff 

Approved By: Jerome T. Schmitz 

Section No:	MS C-15
Page No.:	1 of 5
Issue Date:	03/01/16
Superseded Date:	01/28/15

PIPE COATING

Filler Tape

1. SCOPE

This specification covers filler tape, a moldable, unbacked, elastomeric butyl rubber with high electrical resistivity suitable as an underlayment for tape coatings. Its high conformability and self-adhering characteristics make it suitable for filling voids around tees, ells, valves and other irregular shapes.

2. APPLICABLE DOCUMENTS

- 2.1 ASTM International (ASTM) D-149, "Test Method for Dielectric Breakdown Voltage and Dielectric Strength of Solid Electrical Insulating Materials at Commercial Power Frequencies."
- 2.2 ASTM International (ASTM) D-1000, "Pressure-Sensitive Adhesive Coated Tapes used for Electrical Insulation."
- 2.3 ASTM International (ASTM) E-96, "Water Vapor Transmission of Materials in Sheet Form."
- 2.4 United States Department of Transportation (DOT), Code of Federal Regulations, Title 49, Part 192, "Transportation of Natural and Other Gas by Pipelines Minimum Safety Standards."

NOTE: Unless otherwise specified, the editions of the above documents incorporated by DOT 49 CFR 192 are applicable. Documents not incorporated by DOT 49 CFR 192 will be the most recent edition.

3. TERMINOLOGY

3.1 General

- 3.1.1 "Southwest Gas," "Southwest" or "SWG" wherever used in this specification and other related documents will refer exclusively to Southwest Gas Corporation.
- 3.1.2 The terms "approved," "as approved," "satisfactory," "as directed," "or equal" or other similar terms wherever used in this specification and other related documents will mean "as determined by Southwest Gas," unless specifically stated otherwise.
- 3.1.3 "Product Information Package" or "PIP" wherever used in this specification and other related documents will mean the required technical product information that a manufacturer must submit to Southwest to determine if the product is suitable for use by Southwest, unless specifically stated otherwise.



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Section No:	MS C-15
Page No.:	2 of 5
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4. MATERIALS AND MANUFACTURING

- 4.1 The tape shall be a black, mastic-like elastomer, made from resins and fillers.
- 4.2 The tape shall be 100% non-volatile.

5. PERFORMANCE REQUIREMENTS

- 5.1 The tape shall have an application and continuous operating temperature range of -30°F and 185°F.
- 5.2 The tape shall have a minimum shelf life of 1 year.

6. DIMENSIONS AND TOLERANCES

- 6.1 The tape thickness shall be no less than 30 and no greater than 135 mils.
- 6.2 The properties of the tape shall be in accordance with Table C-15.1

PROPERTY	VALUE	TEST METHOD
Elongation at Break	> 300%	ASTM D-1000
Dielectric Strength	1,000 Volts/mil	ASTM D-149
Water Vapor Transmission Rate, g/100 in ² /24 hrs.	0.20 Max	ASTM E-96

TABLE C-15.1

7. INSPECTION

- 7.1 Successful review of the Product Information Package (PIP), as well as any future reference by SWG to the Seller's part number or internal code number in any future contract or purchase, will mean only that no conflict with the specification was found, and will not relieve the seller from meeting all the requirements of this specification.
- 7.2 SWG retains the option to inspect the manufacture and testing of all materials sold to SWG.
- 7.3 SWG will make appropriate inspections and tests of any and all materials, products or systems supplied to this specification. SWG will have the right, at their option, to reject any material, which fails to conform to this specification. Any such rejection may take place at the manufacture's facility, the supplier's warehouse or any subsequent delivery location, before or after SWG assumes possession. Notice of the rejection will be made promptly to the supplier by SWG. The defective product will be replaced or returned for credit at the manufacturer's expense.



SOUTHWEST GAS CORPORATION

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Page No.:	3 of 5
Issue Date:	03/01/16
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7. INSPECTION (Cont'd)

7.4 Any changes in the manufacturing of previously approved materials, products or systems described in this material specification for sale to SWG must be approved by SWG's Engineering Staff. **Failure to obtain SWG's approval may be cause for rejection and disqualification as an approved supplier.**

8. CERTIFICATION

The manufacturer's or supplier's certification will be furnished to Southwest. This certification will state that samples representing each lot have been manufactured, tested and inspected in accordance with this specification and that all requirements have been met. When specified in the purchase order or contract, a report of results will be provided.

Upon the request of Southwest, the certification of an independent third party indicating conformance to the specification may be considered at Southwest's expense.

9. SAFETY DATA SHEETS

In accordance with law, the seller will supply Safety Data Sheets for all applicable items supplied under this specification to the following:

- 1) The Receiving Location
- 2) Engineering Staff
- 3) Southwest Gas Corporation
Staff Safety
Mail Station LVA-120
P.O. Box 98510
Las Vegas, NV 89193-8510

10. PACKAGING AND PACKAGE MARKING

10.1 The 125-mil tape shall be packaged in 2-inch wide x 10-foot long rolls with cores no smaller than 1-1/2-inch diameter.

10.2 The 35-mil tape shall be packaged in 2-inch wide x 25-foot long rolls with cores no smaller than 1-1/2-inch diameter.



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Page No.:	4 of 5
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11. STOCK CLASS DESCRIPTION

WRAP, FILLER TAPE, PIPE AND FITTINGS, ____-INCH x ____ FEET x ____-MILS,
BLACK