



SOUTHWEST GAS CORPORATION

ENGINEERING STAFF

MATERIAL SPECIFICATION

Section No:	MS C-3
Page No.:	1 of 5
Issue Date:	03/01/16
Superseded Date:	01/29/15

Prepared By: Engineering Staff 

Approved By: Jerome T. Schmitz 

PIPE COATING
Joint Wrap Tape

1. SCOPE

This specification covers cold applied polyethylene pipe wrapping tape.

2. APPLICABLE DOCUMENTS

- 2.1 ASTM International (ASTM) D-257, "DC Resistance or Conductance of Insulating Materials."
- 2.2 ASTM International (ASTM) D-1000, "Pressure-Sensitive Adhesive Coated Tapes used for Electrical and Electronic Applications."
- 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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4. MATERIALS AND MANUFACTURING

The tape shall be made of a low-density black or white polyethylene backing with butyl rubber, synthetic resin adhesive.

5. PERFORMANCE REQUIREMENTS

The properties of the polyethylene material shall be in accordance with Table C-3.1.

PROPERTY	VALUE	TEST METHOD
Elongation at Break	170%	ASTM D-1000
Tensile Strength	15 lbs./in. width	ASTM D-1000
Dielectric Strength	1,000 Volts/mil	ASTM D-1000
Adhesion	15 lbs./in. width (to primed steel)	ASTM D-1000
Thickness, mils (min.)	Backing – 6 Adhesive – 29 Total – 35	ASTM D-1000
Insulation Resistance	1,000,000 MΩ	ASTM D-257
Water Vapor Transmission Rate, g/100 in ² /24 hrs.	0.20	ASTM E-96

TABLE C-3.1

6. DIMENSIONS AND TOLERANCES

The tape shall be available in widths of 2, 4 and 6 inches.



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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 any and all materials, products or systems 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.
- 7.4 Any changes in the manufacturing of previously approved materials under this document 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 SWG. 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.



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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
Corporate Safety
Mail Station LVA-120
P.O. Box 98510
Las Vegas, NV 89193-8510

10. PACKAGING AND PACKAGE MARKING

- 10.1 Each roll shall contain a minimum of 50 lineal feet of tape.
- 10.2 All ends and edges of the tape shall be free from deformities including, but not limited to nicks, cuts, and breaks.

11. STOCK CLASSIFICATION DESCRIPTION

- WRAP, PIPE, _____-INCH x 50 FEET, 35 MILS, BLACK ____-INCH CORE (IF APPLICABLE)
- WRAP, PIPE, _____-INCH x 50 FEET, 35 MILS, WHITE ____-INCH CORE (IF APPLICABLE)