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<b>Issue Date:</b>	03/01/16
<b>Superseded Date:</b>	01/22/15

*Prepared By:* Engineering Staff 

*Approved By:* Jerome T. Schmitz 

**PIPE COATING**

**Wrap – Glass Fabric, Bituminized**

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**1. SCOPE**

This specification covers Bituminized Glass Fabric suitable for use as a wrapper in containing grease coating of irregularly shaped pipeline components.

**2. APPLICABLE DOCUMENTS**

- 2.1 ASTM International (ASTM) D-1668, "Woven Glass Fabrics treated with bituminous substances.
- 2.2 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**

- 4.1 The glass fabric wrapper shall meet the requirements of ASTM D-1668 for Type I woven glass cloth treated with asphalt.
- 4.2 The quantity of saturant shall not be more than 80% or less than 60%, by weight, of the finished product.
- 4.3 The strands shall be at right angles to each other forming a rectangular pattern.
- 4.4 The number of strands shall be no more than 24 or less than 20 per inch, each way.
- 4.5 The strand thickness shall be 0.007 ± 0.003 inches.
- 4.6 The saturated fabric weight shall be no more than 3 ounces or less than 2 ounces per square yard.

**5. PERFORMANCE REQUIREMENTS**

- 5.1 When unrolled at temperatures between 32° F and 120° F, the wrap shall not stick to the roll or itself to such an extent as to cause tearing.
- 5.2 The tensile strength shall be a minimum of 75 pounds per inch, longitudinally and transverse, after a 24-hour immersion in water.

**6. INSPECTION**

- 6.1 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.
- 6.2 SWG retains the option to inspect the manufacture and testing of any and all materials, products or systems referenced in this specification that are sold to SWG.




**SOUTHWEST GAS CORPORATION**

**ENGINEERING STAFF**

**MATERIAL SPECIFICATION**

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**6. INSPECTION (Cont'd)**

- 6.3 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 manufacturer'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.
- 6.4 Any changes in the manufacturing of previously approved materials, products or systems described in this materials 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.**

**7. CERTIFICATION**

The manufacturers or suppliers certification shall be furnished to Southwest. This certification shall state that samples representing each lot have been manufactured, tested and inspected in accordance with this specification and that requirements have been met. When provided or specified in the purchase order or contract, a report of test 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.

**8. 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



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***MATERIAL SPECIFICATION***

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**9. PACKAGING AND PACKAGE MARKING**

The length of each roll shall be 150 feet of material,  $\pm$  1.5 ft.

**10. STOCK CLASS DESCRIPTION**

WRAP, GLASS FABRIC, BITUMINIZED, \_\_\_\_\_-INCH  $\times$  150 FT