




SOUTHWEST GAS CORPORATION

ENGINEERING STAFF

MATERIAL SPECIFICATION

Prepared By: Engineering Staff 

Approved By: Jerome T. Schmitz 

Section No:	MS H-6
Page No.:	1 of 5
Issue Date:	03/01/16
Superseded Date:	02/23/15

GASKETS AND SEALANTS

Pipe Thread Compound and Tape

1. SCOPE

This specification covers pipe thread compound and tape used for making threaded pipe connections. Pipe thread compounds and tapes are used as sealant against leakage.

2. APPLICABLE DOCUMENTS

- 2.1 ASTM International (ASTM) D-88, "Test Method for Saybolt Viscosity."
- 2.2 ASTM International (ASTM) D-92, "Test Method for Flash and Fire Points by Cleveland Open Cup."
- 2.3 ASTM International (ASTM) D-937, "Test Method for Cone Penetration of Petrolatum."
- 2.4 United States Department of Transportation (DOT), Code of Federal Regulations (CFR), Title 49, Part 192, "Transportation of Natural and Other Gas by Pipeline; 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 SWG to determine if the product is suitable for use by SWG.



SOUTHWEST GAS CORPORATION

ENGINEERING STAFF

MATERIAL SPECIFICATION

Prepared By: Engineering Staff 

Approved By: Jerome T. Schmitz 

Section No:	MS H-6
Page No.:	2 of 5
Issue Date:	03/01/16
Superseded Date:	02/23/15

GASKETS AND SEALANTS

Pipe Thread Compound and Tape

4. MATERIALS AND MANUFACTURING

- 4.1 Pipe thread compound ingredients will be reviewed for suitability in the SWG system.
- 4.2 Pipe thread compounds will be made of materials which are compatible with natural gas and agents commonly found in natural gas pipelines.
- 4.3 Pipe thread compounds will not affect any of the components of a natural gas system.
- 4.4 Pipe thread compounds shall be non-toxic and contain no lead or other injurious ingredients.

5. PERFORMANCE REQUIREMENTS

- 5.1 Pipe thread compounds and tapes shall be non-seizing and break out easily without stripping, galling or damaging threads.
- 5.2 Pipe thread compounds shall seal at temperatures from minus 15°F to plus 400°F.
- 5.3 Pipe thread compounds shall be brushable at temperatures as low as 15°F.
- 5.4 Pipe thread compounds shall have an operating pressure range for gases up to 1,000 psig.

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

Prepared By: Engineering Staff 

Approved By: Jerome T. Schmitz 

Section No:	MS H-6
Page No.:	3 of 5
Issue Date:	03/01/16
Superseded Date:	02/23/15

GASKETS AND SEALANTS

Pipe Thread Compound and Tape

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 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.**

7. 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 requested 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.



SOUTHWEST GAS CORPORATION

ENGINEERING STAFF

MATERIAL SPECIFICATION

Prepared By: Engineering Staff 

Approved By: Jerome T. Schmitz 

Section No:	MS H-6
Page No.:	4 of 5
Issue Date:	03/01/16
Superseded Date:	02/23/15

GASKETS AND SEALANTS

Pipe Thread Compound and Tape

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

9. PRODUCT MARKING

The following will be marked on each container or the packaging:

- Manufacturer's name
- Product description
- Lot number or equivalent
- Expiration date, if applicable
- Storage temperature, if applicable

10. PACKAGING AND PACKAGE MARKING

All products covered in this specification will be packaged in a manner to prevent damage during transportation and storage.

11. STOCK CLASSIFICATION DESCRIPTION

THREAD COMPOUND, BRUSH TOP CAN, _____SIZE (PINT, 1/2 PINT OR 1/4 PINT).

TAPE, TEFLON, YELLOW, _____SIZE (ROLL 4 MIL) MUST BE U/L APPROVED, SPEC AGA C-310600-1.