



SOUTHWEST GAS CORPORATION

ENGINEERING STAFF

MATERIAL SPECIFICATION

Section No:	MS H-7
Page No.:	1 of 10
Issue Date:	03/01/16
Superseded Date:	01/22/15

Prepared By: Engineering Staff 

Approved By: Jerome T. Schmitz 

GASKETS AND SEALANTS

Valve Sealants, Lubricants & Cleaners

1. SCOPE

This specification covers the following materials for the operation and maintenance of valves:

- Plug valve sealants
- Ball valve sealants
- Plug and ball valve cleaners

Appendix A provides guidance for the selection of sealants and valve cleaners.

2. APPLICABLE DOCUMENTS

- 2.1 ASTM International (ASTM) D-217, "Standard Specification for Test Method for Cone Penetration of Lubricating Grease."
- 2.2 National Lubricating Grease Institute (NLGI).
- 2.3 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.



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4. MATERIALS AND MANUFACTURING

- 4.1 Sealants and cleaners will be made of a material which is compatible with natural gas and agents commonly found in natural gas pipelines.
- 4.2 Sealants and cleaners will not affect any of the components of a natural gas system.
- 4.3 Sealants and cleaners will be available in bulk and stick form. Sealants will be available in a gun pack form. The sealants and cleaners will be provided in sizes to fit the lubricating equipment described.
- 4.4 Other stick sizes will be available to provide manual lubrication of ball valves approved for purchase by Southwest.

5. PERFORMANCE REQUIREMENTS

- 5.1 The National Lubricating Grease Institute (NLGI) grade as defined in ASTM D-217 will be:
 - Bulk 2 or 3
 - Stick 5
- 5.2 The temperature range for proper lubrication will be 30°F to 500 °F.
- 5.3 Sealant will not dry, harden or contain soap.
- 5.4 Sealant will be resistant to oils and water.
- 5.5 Sealant will be compatible with all components normally found in natural gas facilities.



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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.
- 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 facility; the supplier's warehouse or any subsequent delivery location, before or after SWG assumes possession. 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 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 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.



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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



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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

VALVE SEALANT, _____ (SEALWELD #911 OR #5050, NORDSTROM SEALANT NO. 1033, VAL-TEX NO. 80, 80-S, 80+TFE), _____, ("B"-STICK, "C"-STICK, "D"-STICK, VALVE CLEANER), _____ (NORDSTROM VPX VALVE PURGE, VAL-TEX VALVE FLUSH, SEALWELD VALVE CLEANER) _____ (40 LB. PAIL, 120 LB. DRUM) ("J"-STICK, "K"-STICK, 5 QT. BULK).