



SOUTHWEST GAS CORPORATION

ENGINEERING STAFF

MATERIAL SPECIFICATION

Prepared By: Engineering Staff 

Approved By: Jerome T. Schmitz 

Section No:	MS L-16
Page No.:	1 of 6
Issue Date:	03/01/16
Superseded Date:	01/26/15

CORROSION CONTROL MATERIALS

Electrical Test Station Terminal Boxes

1. SCOPE

The specification covers Electrical Test Station (E.T.S.) terminal boxes. The application for E.T.S. terminal boxes is to bring test leads, bond wires and anode wires to a terminal block so that test measurements can be made.

2. APPLICABLE DOCUMENTS

- 2.1 ASTM International (ASTM) D-1788, "Rigid Acrylonitrile-Butadiene-Styrene Plastics".
- 2.2 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 information that a manufacturer must submit to SWG to determine if the product is suitable for use by SWG, unless specifically stated otherwise.
- 3.1.4 ABS wherever used in this specification and other related documents will refer to Acrylonitrile-Butadiene-Styrene plastic.



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4. MATERIALS AND MANUFACTURING

- 4.1 The tube sections will be ABS polymer material.
- 4.2 The lid will be cast iron with ABS locking mechanism, marked "Test" or "Test Station".
- 4.3 The terminal block will be made of electrically non-conductive material.
- 4.4 The terminals will be electrically conductive corrosion-resistant metallic material.

5. PERFORMANCE REQUIREMENTS

The E.T.S. terminal boxes will meet the requirements of ASTM D-1788.

6. DIMENSIONS AND TOLERANCES

The boxes will conform to minimum dimensions as listed below:

Minimum Length - Inches	I.D. - Inches
15	2 3/8
18	4

TABLE L-16.1

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 any and all materials, products or systems supplied to this specification at the manufacturer's facility.



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7. INSPECTION (Cont'd)

7.3 Southwest 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 Southwest 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 products described in this material specification must be approved by Southwest 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 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 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.

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:

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



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10. PRODUCT MARKING

- 10.1 All Electrical Test Station Terminal Boxes will be marked with the manufacturer's name or trademark.
- 10.2 The lid will be cast iron with ABS locking mechanism, marked "Test" or "Test Station".

11. PACKAGING AND PACKAGE MARKING

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



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12. STOCK CLASS DESCRIPTION

CATHODIC TERMINAL TEST BOX, MIN ID ____INCH X ____INCH LONG, ABS POLYMER WITH 2 TERMINALS AND CAST IRON LID MARKED "TEST", BELOW GROUND.

CATHODIC TERMINAL TEST STATION, MIN ID ____INCH X ____INCH LONG, ABS POLYMER WITH 5 FEED THROUGH POST-TYPE TERMINALS AND CAST IRON LID MARKED "TEST STATION" BELOW GROUND.

CATHODIC PROTECTION TEST STATION, 5 LEAD MACHINE SCREW CONNECTIONS, BRASS NICKEL PLATED, TO FIT ____INCH DIAMETER CONDUIT, ABOVE GROUND, WHITE.

CAP TEST STATION, CATHODIC PROTECTION, ALUMINUM PIPE, INCLUDES ONE ____INCH ALUMINUM CAP WITH CHAIN AND SCREW AND ONE T-TYPE TERMINAL BOARD WITH 4 TERMINALS.