

Prepared By: Engineering Staff

Approved By: Jerome T. Schmitz

Section No: MS C-16
Page No.: 1 of 5
Issue Date: 03/01/16
Superseded Date: 01/28/15

## *ipproved by.* Jerome 1. Som

## PIPE COATING

Thermite Weld Cap

### 1. SCOPE

This specification covers thermite weld caps, a pre-fabricated assembly designed specifically for corrosion protection of areas where cables or wires have been welded to steel pipe by the thermite process.

### 2. APPLICABLE DOCUMENTS

2.1 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.



Prepared By: Engineering Staff

Approved By: Jerome T. Schmitz

Section No: MS C-16
Page No.: 2 of 5
Issue Date: 03/01/16
Superseded Date: 01/28/15

### **PIPE COATING**

Thermite Weld Cap

#### 4. MATERIALS AND MANUFACTURING

- 4.1 The thermite weld cap assembly shall consist of three elements. (See Appendix A)
  - A plastic sheet, a minimum of 2-3/4 inches x 4 inches, with an igloo-shaped dome and tunnel formed in the center.
  - An elastomeric compound contained in the dome portion of the plastic sheet.
  - An elastomeric tape, a minimum of 4 inches square x 125 mils thick.
- 4.2 The thermite weld cap shall include a removable protective backing on the surface of the tape to allow for protection of the tape's adhesive during transportation and storage.

### 5. PERFORMANCE REQUIREMENTS

- 5.1 The application temperature range shall be -20°F to 120°F, with a service temperature range of -40°F to 185°F.
- 5.2 The minimum shelf life shall be one year.

### 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 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.



Prepared By: Engineering Staff

Approved By: Jerome T. Schmitz

Section No: MS C-16
Page No.: 3 of 5
Issue Date: 03/01/16
Superseded Date: 01/28/15

### **PIPE COATING**

Thermite Weld Cap

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

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 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.

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

#### 9. STOCK CLASS DESCRIPTION

CAP, THERMITE WELD, 4.000-INCH × 4.000-INCH, ELASTOMERIC ADHESIVE AND PREMOLDED PLASTIC CAP FILLED WITH ELASTOMERIC COMPOUND.



Prepared By: Engineering Staff

Approved By: Jerome T. Schmitz

 Section No:
 MS C-16

 Page No.:
 5 of 5

 Issue Date:
 03/01/16

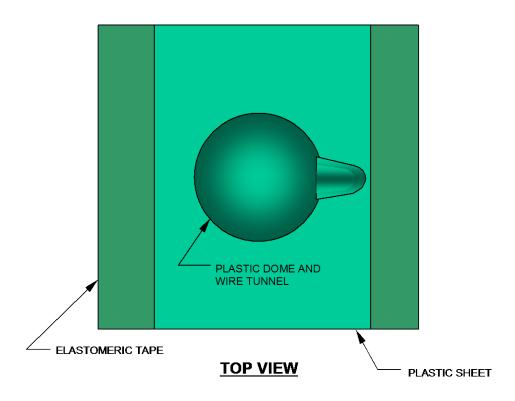
 Superseded Date:
 01/28/15

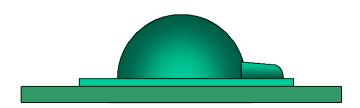
### **PIPE COATING**

Thermite Weld Cap

### **APPENDIX A**

### TYPICAL DRAWING - THERMITE WELD CAP





**SIDE VIEW**