



**Evaluation of the Gasteel
Interstitial Monitor for Liquid Leaks**

Periodic Interstitial Test Procedure

**Tank Models: Gasteel II Model GS- 13,
Gasteel Model GS- 16, Gasteel Model GS- 19**

**Test Report
Modern Welding Co. of Georgia, Inc
Augusta, GA 706-722-3411**

Prepared for the:

Subsidiaries:

**Modern Welding Company of Owensboro, Inc. (270) 683-5323
Modern Welding Company of Ohio, Inc. (614) 344-9425
Modern Welding Company of Florida, Inc. (407) 843-1270
Modern Welding Company of Texas, Inc. (713) 675-4211
Modern Welding Company of Iowa, Inc. (319) 754-6577
Modern Welding Company of California, Inc. (209) 275-9353
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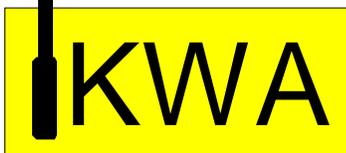
Test Report

Prepared for the:
Modern Welding Co., Inc
Owensboro, KY

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Modern Welding Company of Georgia, Inc.

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Periodic Interstitial Test Procedure

1. Establish a vacuum of 11" +/- 1" of Hg on the tank's interstitial space through the monitor pipe.

Note: All of the air must be removed from the tank's interstitial space before a consistent vacuum reading can be established. It may take several attempts to establish a vacuum before a constant reading can be established.

2. Hold the vacuum on the interstitial space for the minimum time specified in Table 3.
3. Check the vacuum after the time specified. A vacuum drop of less than 5" Hg indicates both the inner and outer tanks are tight.
4. A vacuum drop of more than 5" of Hg during test period requires further investigation.
5. If further investigation is required, contact the tank installation company. After investigation is complete, this test shall be repeated.
6. This test meets the EPA requirements for tightness testing of operating underground storage tanks containing product.

Additional Information...Tanks sizes not listed in Table 3

The test time for the test cell volume is then scaled linearly to the volume of any interstice using the equation:

$$\text{Test Time} = (V_{\text{tank}}/V_{\text{cell}}) \times t_{\text{cell}}$$

Table 3 contains most of the standard tank sizes. However, it is possible that a tank of a different size may need to be tested. In that case, the equation can be used to determine the required minimum test time. Substitute the interstitial volume of the tank to be tested for V_{tank} and use 5.0 gallons for V_{cell} . Use 11.0 hours (the duration for water) for t_{cell} and calculate the required time using the equation.

Table 3

**Minimum Test Times for Modern Welding Tanks
Glasteel II Model GS- 13, GS- 16, and Glasteel Model GS- 19***

Tank Capacity (gal.)	Tank Diameter (in.)	Modern Test Time (hrs.)
550	48	2
1000	48	3
1000	64	3
2000	64	4
3000	64	5
4000	64	6
4000	84	6
5000	72	7
5000	84	7
5000	96	7
6000	72	8
6000	84	8
6000	96	8
8000	96	9
10000	96	11
10000	120	11
12000	96	12
12000	120	12
15000	96	14
15000	120	14
15000	126	14
16000	120	14
20000	120	17
20000	126	17
25000	126	20
25000	144	20
30000	126	24
30000	144	24
35000	144	24
40000	144	27
50000	144	33



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Periodic Interstitial Test Procedure Results
Record of Test

Date: _____

Tank Size /Identification: _____

Tank Owner: _____

Tank Location: _____

Test Data:

Time duration of test required (See Table A, in Modern Welding Company's Periodic Interstitial Test Procedure): _____

Established vacuum amount (Range 11" Hg +/- 1" Hg): _____

Initial test time start: _____

Vacuum amount at end of test: _____

Test time finished: _____

Length of test in hours: _____

Recorded / Tested by: _____

Company: _____

Address: _____

Date: _____

This record sheet is for informational purposes only and is not meant to be a substitute for any governmental form or submittal.