



**TEXAS DEPARTMENT OF TRANSPORTATION
TRIAxIAL COMPRESSION TESTS
Tex-117-E**

To: **Gulf States Materials, Inc.
555 Sens Rd.
La Porte, TX 77575-1425**

Date: **12/1/2012**
Report No.: **12-C-0452-0004**
Project: **Item 247 Material Acceptance Testing**

page 1 of 2

Attn: **Don Brandon P.E.**

Table 10-4.10.10.10.10

| | | | |
|------------------|--|--------------------|------------|
| SAMPLE ID: | 12-175 | SAMPLED DATE: | 10/09/2012 |
| TEST NUMBER: | 1 | LETTING DATE: | N/A |
| SAMPLE STATUS: | Complete | CONTROLLING CSJ: | N/A |
| COUNTY: | Harris | SPEC YEAR: | 2004 |
| SAMPLED BY: | Jason Lay | SPEC ITEM: | 247 |
| SAMPLE LOCATION: | Gulf States Materials, Inc. | SPECIAL PROVISION: | 247-033 |
| MATERIAL CODE: | N/A | GRADE: | N/A |
| MATERIAL NAME: | Calcium Sulfate Base Material (GS-100) | | |
| PRODUCER: | Gulf States Materials, Inc. | | |
| AREA ENGINEER: | N/A | PROJECT MANAGER: | N/A |

| | | | | | |
|--------------|-----|----------|-----|----------------|-----|
| COURSE/LIFT: | N/A | STATION: | N/A | DIST. FROM CL: | N/A |
|--------------|-----|----------|-----|----------------|-----|

Triaxial Test Data Sheet

| Specimen Data | | | | | | |
|--|--------|--------|--------|--------|--------|--------|
| Specimen Number: | 1 | 2 | 3 | 4 | 5 | 6 |
| Cell No.: | 5 | 4 | 2 | P10 | NC111 | 123 |
| Wet Mass Spec. & Mold. (lb): | 35.057 | 35.090 | 35.059 | 34.975 | 35.067 | 35.060 |
| Wet Mass Specimen. (lb): | 15.845 | 15.878 | 15.848 | 15.764 | 15.856 | 15.849 |
| Initial Height of Specimen, in.: | 11.842 | 11.863 | 11.779 | 11.832 | 11.832 | 11.843 |
| Height of Stone 1, in.: | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |
| Height of Stone 2, in.: | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |
| New Height of Specimen, in.: | 7.842 | 7.863 | 7.778 | 7.832 | 7.832 | 7.843 |
| Average Diameter, in.: | 6.90 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| Circumference, in. (manual): | 18.850 | 18.850 | 18.850 | 18.850 | 18.850 | 18.850 |
| Area, in. ² : | 28.28 | 28.28 | 28.28 | 28.28 | 28.28 | 28.28 |
| Cross Sectional Area, in. ² : | 28.49 | 28.68 | 28.53 | 28.87 | 28.57 | 28.64 |

| Strength Data | | | | | | |
|-------------------------------|--------|--------|--------|--------|--------|--------|
| Lateral Pressure, psi: | 0 | 3 | 5 | 7 | 10 | 15 |
| Ring Factor, lbs./div: | 14.18 | 14.319 | 14.408 | 14.432 | 14.435 | 14.42 |
| Max. Load Reading, div.: | 195 | 243 | 298 | 312 | 385 | 441 |
| Deformation at Max Load, in.: | 0.0600 | 0.110 | 0.0700 | 0.1600 | 0.0800 | 0.1000 |
| Uncorrected Stress, psi.: | 97.8 | 123.1 | 151.8 | 159.2 | 196.5 | 224.9 |
| % Strain, in./in.: | 0.77 | 1.40 | 0.90 | 2.04 | 1.02 | 1.28 |
| I-Strain, in./in.: | 0.9923 | 0.9860 | 0.9910 | 0.9796 | 0.9898 | 0.9872 |
| Corrected Stress, psi.: | 97.0 | 121.3 | 150.5 | 158.0 | 194.5 | 222.0 |

| | |
|-----------------------------|---------------|
| Classification: | GS-100 |
| Internal Angle of Friction: | 52.4 |
| Cohesion, psi: | 16.9 |
| Correlation Factor: | 0.9958 |

| Dry-Back Data | | | | | | |
|-----------------------------------|------------|------------|------------|----------|----------|----------|
| Wet Mass of Pan & Specimen. (lb): | 17.791 | 17.757 | 17.781 | 18.004 | 17.797 | 17.720 |
| Dry Mass of Pan & Specimen. (lb): | 16.333 | 16.266 | 16.336 | 16.632 | 16.356 | 16.372 |
| Mass of Pan, (lb): | 1.439 | 1.324 | 1.436 | 1.747 | 1.445 | 1.313 |
| Dry Mass of Material, (lb): | 14.894 | 14.942 | 14.9 | 14.885 | 14.811 | 15.059 |
| Mass of Water, (lb): | 1.458 | 1.491 | 1.445 | 1.372 | 1.441 | 1.348 |
| Moisture Content, (%): | 9.78917685 | 9.97858386 | 9.69798658 | 9.217333 | 9.664006 | 8.951458 |
| Wet Density, (pcf): | 123.6 | 123.5 | 124.5 | 123.1 | 123.8 | 123.6 |
| Dry Density, (pcf): | 112.579403 | 112.29458 | 113.584582 | 112.711 | 112.8903 | 113.445 |

Remarks:

Certification: SB202 Certification No.076

HTS, Inc. Consultants

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|--------------|--------------------|--------------|
| Test Method: | Tested By: | Tested Date: |
| TX117 | Margarita Coronado | 10/29/12 |

HTS, INC.
CONSULTANTS
FORM NO. F347E



TEXAS DEPARTMENT OF TRANSPORTATION
 TRIAXIAL COMPRESSION TESTS
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To: Gulf States Materials, Inc.
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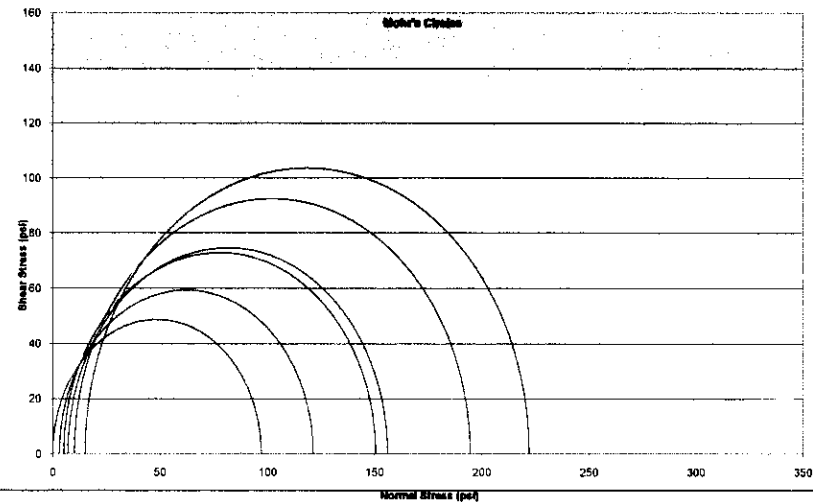
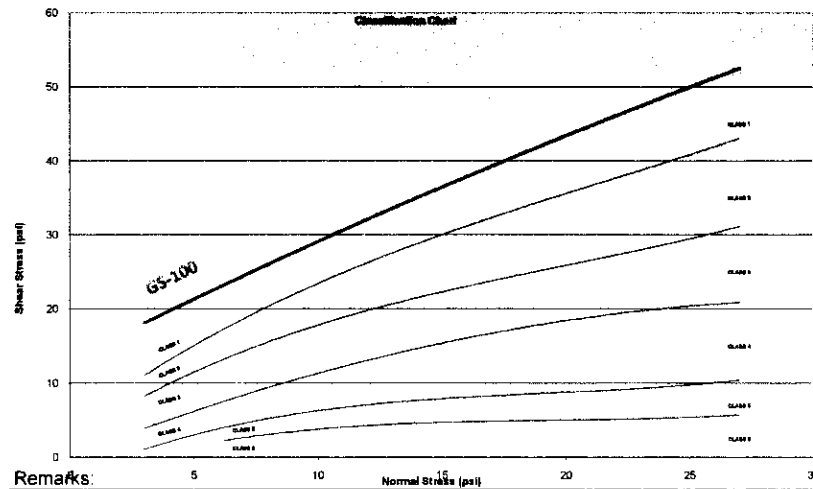
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Attn: Don Brandon P.E.

Reference: 2004

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| TX117 | Margarita Coronado | 10/29/12 | |

