

**STALITE** Lightweight Aggregate  
Physical Characteristics for Structural Applications

| <b>Absorption</b>                                 |                          |
|---|--------------------------|
| Saturated Surface Dry (ASTM C 127)                | 6.0%                     |
| 1 Hour Boil In Water                              | 8.0%                     |
| Under high pumping pressure of 150 psi (1033 kPa) | 9.4%                     |
| <b>Soundness (% Loss)</b>                         |                          |
| Magnesium Sulfate (ASTM C 88)                     | 0 - 0.01%                |
| Sodium Sulfate (ASTM C 88)                        | 0 - 0.23%                |
| 25 Cycles Freezing and Thawing (AASHTO T 103)     | 0.22 - 0.80%             |
| <b>Toughness</b>                                  |                          |
| Los Angeles Abrasion (AASHTO T 96)                | 25 - 28%                 |
| <b>Stability</b>                                  |                          |
| Angle of Internal Friction (Loose)                | 40° - 42°                |
| Angle of Internal Friction (Compacted)            | 43° - 46°                |
| <b>Impurities</b>                                 |                          |
| Clay Lumps (ASTM C 142)                           | 0                        |
| Organic Impurities (ASTM C 40)                    | 0                        |
| Popouts (ASTM C 151)                              | 0                        |
| <b>Electrical Resistance</b>                      |                          |
| Lab (AASHTO T 288)                                | 30,000 - 40,000 ohm-cm   |
| Field (ASTM G 57)                                 | More than 500,000 ohm-cm |
| <b>Aggregate Chemical Characteristics</b>         |                          |
| Ignition Loss (ASTM C 114)                        | 0                        |
| Stains (ASTM C 641)                               | None                     |
| Sulfur Trioxide                                   | Less Than 0.05 ppm       |
| Chlorides (NaCl)                                  | 0.60 - 7.0 ppm           |
| Soluble Salts                                     | 0.28 mmhos/cm            |
| pH  | 7 - 9                    |

*Certified test reports available*