



GRAVELITE® - LIGHTWEIGHT AGGREGATE

Big River Industries, Inc. produces an expanded clay lightweight aggregate at its Erwinville, Louisiana plant. The aggregate is sold under the trade name "GRAVELITE".

GRAVELITE expanded clay lightweight aggregate is structural grade aggregate for use in ready-mixed concrete products, as well as asphalt paving and geotechnical engineering projects. The aggregate is produced by mining clay from deposits found on plant property and calcining the clay at a temperature of approximately 2000 degrees Fahrenheit in rotary kilns. The resulting lightweight aggregate is graded to conform to the requirements of ASTM C-330, Specification for Lightweight Aggregate for Structural concrete, and ASTM C-331, Specification for Lightweight Aggregate for Concrete Masonry Units. In addition, special gradations are available upon request.



The Erwinville plant is the original facility of Big River Industries, having opened in 1948. At that time, it consisted of one rotary kiln, 8 feet in diameter and 160 feet long, with a rated capacity of 150,000 cubic yards per year. Today, the plant, which is situated on 660 acres owned by Big River Industries, has four kilns, each 8 foot in diameter and 160 feet long, and a rated capacity of more than 600,000 cubic yards annually.



GRAVELITE expanded clay lightweight aggregate is available throughout the eastern two-thirds of the United States, portions of Canada, and Mexico. The aggregate is shipped from the Erwinville plant via rail, truck and barge. It has been used extensively for structural lightweight concrete and concrete masonry in Louisiana, Florida, Minnesota and the metropolitan Chicago area. Recent structural lightweight concrete project locations include Grand Rapids, Michigan and Cleveland, Ohio.

PHYSICAL PROPERTIES	GRAVELITE	SPECIFICATIONS (ASTM C 330)
Unit Weight, Dry Loose, lb/ft ³ ASTM C 330 Coarse Aggregate, ½ In. to .4 Standard Fineness Modulus, 6.3 ASTM C 330 Fine Aggregate, No. 4 to 0 Standard Fineness Modulus, 3.1	34 to 37 44 to 48	55, max 70, max
Organic Impurities, ASTM C 40	Lighter than Standard	Standard or Lighter
Staining Index, ASTM C 641	Very Light	Less than "heavy stain"

Loss on Ignition, ASTM C 114	< 1 %	5 %, max
Drying Shrinkage	< 0.07 %	0.07 %, max
Popouts, ASTM C 151	None	None



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GRAVELITE expanded clay lightweight aggregate is made by Big River Industries, Inc. to conform to the requirements of ASTM C33, *Standard Specification for Lightweight Aggregates for Structural Concrete*. GRAVELITE is classified in the category "expanded shale, clay or slate", and therefore must comply with the most stringent requirements of the specification. GRAVELITE® is a registered trademark of Big River Industries, Inc.