1" MINUS CRUSHED OYSTER SHELL

Product Data Sheet / Material Submittal



Close-up of crushed oyster shell showing naturally variable shell fragments and fines.

PRODUCT 1" Minus Crushed Oyster Shell	**MATERIAL TYPE** Natural, recycled biogenic aggregate	**NOMINAL SIZE** Fines through approximately 1 inch
PRIMARY MINERAL Calcium carbonate (calcite)	**APPEARANCE** White, cream, gray and natural shell tones	**TYPICAL BULK WEIGHT** Approx. 1,500 lb/yd³*

*Bulk weight is an approximate planning value and can vary with particle distribution, moisture and compaction.

MATERIAL CHARACTERISTICS

Description. Shellscapes 1" Minus Crushed Oyster Shell is processed oyster shell that has been mechanically crushed to create a naturally variable aggregate containing shell fragments and fines up to approximately 1 inch. **The material is not screened.** Particle distribution is therefore naturally variable from load to load. The fines and angular shell particles allow the material to knit together under compaction while retaining the distinctive coastal shell appearance.

Property	Product information
Material	Processed / crushed oyster shell
Nominal particle size	1" minus production designation; material is not screened and is not a certified sieve gradation
Processing	Mechanically crushed; not screened
Primary mineral phase	Calcium carbonate (CaCO■), predominantly calcite
Color	Natural white, cream, gray and tan variation
Texture	Angular shell fragments with naturally occurring fines
Typical bulk weight	Approx. 1,500 lb per cubic yard*
Typical applications	Paths, courtyards, landscape surfaces, driveways, decorative aggregate and bocce applications
Packaging / delivery	Bulk or bulk-bag handling depending on project logistics

PUBLISHED MATERIAL COMPOSITION

Oyster shell is a biogenic mineral material whose dominant component is calcium carbonate. Published laboratory studies using X-ray diffraction (XRD), X-ray fluorescence (XRF) and related methods consistently identify calcite / CaCO■ as the principal phase. Reported uncalcined oyster-shell calcium carbonate values are commonly in the mid-to-high 90% range; one peer-reviewed study calculated 97.88% CaCO■.

Constituent / characteristic	Published indication
Calcium carbonate (CaCO■)	Dominant constituent; literature commonly reports approximately 96-98% for oyster shell
Mineral phase	Calcite is commonly identified as the dominant crystalline phase
Minor constituents	May include trace Na, Mg, Si, Al, P, S, Cl, Fe, Sr and other naturally occurring constituents

IMPORTANT SUBMITTAL NOTE

The composition values above are published reference data for oyster shell generally and are **not lot-specific laboratory results for Shellscapes material**. The 1" minus designation is a production description only. **Shellscapes' crushed shell is not screened and does not have a certified ASTM sieve gradation.** Project-specific testing can be commissioned when required by the project specification.

Published references: (1) *Chemical-mechanical characteristics of crushed oyster-shell*, Waste Management - approximately 96% CaCO■. (2) *The Effect of Oyster Shell Powder on the High-Temperature-Properties of Slag-Ceramic Powder-Based Geopolymer* - calculated 97.88% CaCO■. (3) Additional XRD/XRF literature identifies calcite as the dominant crystalline phase in untreated oyster shell.

PRODUCT & APPLICATION IMAGES



Installed application - compacted crushed oyster shell driveway / landscape surface.



Bulk material handling / project inventory.



Gabion wall filled with whole oyster shells.

Natural material variation: Because the crushed shell is not screened, particle size distribution, color, particle shape, fines content and bulk density can vary between production lots. Samples and project-specific test reports should govern where exact appearance or engineered performance criteria are specified.