

Tifton Soil Testing Lab, LLC

689 Brighton Road
Tifton, Georgia 31794
(229) 382-7292
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TESTING CERT #1014.01

Date Received: July 29, 2024

Date Reported: August 1, 2024

Sample Number: L196B-24

Test Report For: U.S. Sports Field Sand, LLC

1434 3rd Street

Kentwood, LA 70444

Attn: Donny Sligar

PHYSICAL ANALYSIS¹

MIXES ANALYZED (% by Volume)			SATURATED HYDRAULIC CONDUCTIVITY in/hr	POROSITY (%)			BULK DENSITY g/cm ³	WATER RETENTION AT FIELD CAPACITY %	CHEMICAL	
SOIL	SAND	AMENDMENT		NON-CAPILLARY (air-filled)	CAPILLARY (water-filled)	TOTAL			pH ²	EC mmhos/cm
GeoCool Aragonite			10.1	16.5	24.1	40.6	1.71	14.1	8.6	
General Recommendations for an SRM:			8 - 15 in/hr.	15 - 30	15 - 25	35 - 55				

PARTICLE DENSITY³ 2.88 g/cm³

PARTICLE SIZE ANALYSIS

SAMPLES	GRAVEL 2 mm %	SAND FRACTIONS (% Retained) ⁴					SAND ⁵ 0.05-2 mm %	SILT ⁵ 0.002-0.05 mm %	CLAY ⁵ <0.002 mm %	ORGANIC MATTER ⁶ % by wt.
		VERY COARSE 1 mm	COARSE 0.5 mm	MEDIUM 0.25 mm	FINE 0.15 mm	VERY FINE 0.05 mm				
GeoCool	0.0	0.1	29.9	46.7	9.4	8.9	95.0	1.0	4.0	
USGA Recommendations for a Rootzone Mix:	≤ 3% Gravel ≤ 10% Combined	≥ 60% Combined			≤ 20%	≤ 5%		≤ 5%	≤ 3%	

Note: Coarse Gravel (> 4 mm) should be 0%. Total fines (very fine sand, silt, and clay) should be ≤ 10% combined.

1. ASTM F1815 (Determined at 30 cm tension) 2. ASTM D4972 Method A (water) 3. ASTM D854-98 Method A 4. ASTM C136 5. Bouyoucos, 1962 6. ASTM F1647 Method A

7. F1632 Test Method 2 (Particle Shape) SRM Form (Version 4) - Effective Date: 12/6/23

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Recommendation Form (Version 3) - Effective Date: 12/6/23

Recommendations:

A complete physical analysis and particle size analysis, including pH, were made on the GeoCool Aragonite on July 30, 2024, as requested by U.S. Sports Field Sand, LLC. The condition of the sample as received was normal.

The GeoCool has a water permeability rate of 10.1 in/hr. when compacted by the ASTM F1815 method.

The GeoCool is fine medium in particle size with 9.4% fine particles and 13.9% fines (total of very fine sand, silt, and clay size particles).

The soil water pH of the GeoCool is 8.6 (7.9 CaCl₂), which is higher than the optimum pH range of 6.0 to 6.5 for turfgrass. The GeoCool tested positive as calcareous when treated with dilute acid.

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Recommendations are based on the samples received. Results and comments relate to the samples tested. This report cannot be reproduced except in full, and not without written approval of the laboratory.