Sample:			Sta www	1338 Deerfield Drive ite College, PA 16803 7.TurfSoilTesting.com 610-360-5985
		Date Received:		
Sample Submitted By:		Testing Dates:		
Particle Size Analysis			Report Date:	
% Gravel	0.1%			
% Sand	97.8%			
% Silt	1.6%			
% Clay	0.5%			
Sand Sieve Size Analysis	(ASTM F-1632-03)	USGA Sp	USGA Specifications	
(No. 10) Gravel (> 2.0 mm)	0.1%	<3%	Maximum 10%	
(No. 18) Very Coarse Sand (2.0 - 1.0 mm)	3.2%		combined	
(No. 35) Coarse Sand (1.0 - 0.5 mm)	20.1%		Minimum 60%	
(No. 60) Medium Sand (0.5 - 0.25 mm)	55.4%		combined	
(No. 100) Fine Sand (0.25 - 0.15 mm)	15.7%	<20%		
(No. 270) Very Fine Sand (0.15 - 0.05 mm)	3.4%	<5%	Maximum 1004	
Silt (0.05 - 0.002 mm)	1.6%	<5%	combined	
Clay (< 0.002 mm)	0.5%	<3%		
Angularity / Sphericity	Acid Reaction	D15	D85	Cu
Sub-Rounded / Medium Sphericity	None	0.20 mm	0.68 mm	2.4
				USGA: 1.8 - 3.5
Physical Properties (ASTM F-1815-11)				
		Air-filled	Capillary	Hydraulic
Bulk Density	Total	Porosity	Porosity	Conductivity

		Alf-filled	Capinary	пушаши				
Bulk Density	Total	Porosity	Porosity	Conductivity				
(g/cm^3)	Porosity	at 30 cm	at 30 cm	in/hr				
1.49	45.4%	22.9%	22.5%	16.8				
USGA Specifications:	35 - 55%	15 - 30%	15 - 25%	≥ 6 in/hr				
(ASTM F-1647-11, Method A)								
Particle Density (g/cm ³)	2.64	Organic Matter % (LOI) 0.75%						

Comments

Mix tested as received. USGA sand size specifications are shown for reference. This is a medium to coarse sand that meets USGA sand size specifications. The percolation rate (16.8 in/hr) is within the typical range for sand-based rootzones (12-20 in/hr). Air-filled and capillary porosity values are balanced, indicating a balance of air and water in the rootzone. This mix should function well as a sand-based rootzone assuming proper maintenance.

A. McNitt & SerenSoil Testing

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