



**Turf & Soil Diagnostics**



Texas Sports Sands  
 Paul Hagy  
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 Garland, TX 75042

Date received Jan-23-2017  
 Date Reported Jan-26-2017  
 Facility Product Development

**Particle Size Evaluation\***

Lab ID#	Sample Name	% Sand 2.0 - 0.05 mm	% Silt 0.05-0.002mm	% Clay < 0.002mm	Gravel 4.0 (5)	Gravel 2.0 (10)	% Retained mm (US sieve)					
							V. Coarse 1.0 (18)	Coarse 0.5 (35)	Medium 0.25 (60)	Fine 0.15 (100)	Fine 0.10 (140)	V. Fine 0.05 (270)
17010041-3	Optijump Volleyball Sand	99.5	< 1.0	< 1.0	0.0	0.0	0.0	2.4	21.6	43.2	27.6	4.7

Lab ID#	Sample Name	Uniformity Coefficient Cu	D15 mm	D50 mm	D85 mm	Shape Angularity	Shape Sphericity	USDA Textural Classification	Acid Reaction	Infiltration Rate** in/hr	Infiltration Rate** cm/hr	Bulk Density g/cc
17010041-3	Optijump Volleyball Sand	1.9	0.12	0.18	0.33	Sub-Angular to Sub-Rounded	Medium	Sand	Moderate	18.2	46.1	1.52

\*ASTM F1632 Method A & Determination of Size Factors SOP

\*\*ASTM F1815 30 cm Tension

Samples were tested as received and comments pertain only to the samples shown.

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Sample condition upon receipt was normal.

Samples were received without a transmittal letter.

Reviewed by \_\_\_\_\_