



Testing Laboratory  
Certificate #1552-01



ISTRC NEW MIX LAB, L.L.C.

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### Report of Test Results

Report To: Mr. Ted Fist

THE HAYDEN GROUP CORPORATION

Address: 55 JT Drive  
Sheridan, AR 72150

Report Date: July 28, 2020

Date Received: July 15, 2020

Test Dates: July 17 to 24

Condition of Sample(s): intact

Re: Product Development

Lab ID & Job Sequence: 20060003 B

### Particle Size Analysis\*

Sample # & Type	Sample Description	Soil Textural Components [Reported Values are % of the whole]				Sand Distribution by Size Size reported as Mesh # & mm [Value Reported is % Retained]						
		Sand .05 -2.0	Silt .002 -.05	Clay < .002	#10 Gravel 2.0 mm	#18 v. Coarse 1.0 mm	#35 Coarse 0.5 mm	#60 Medium 0.25 mm	#80 Fine 0.18 mm	#100 Fine 0.15 mm	#140 v. Fine 0.10 mm	#270 v. Fine 0.05 mm
		USGA Recommended Specifications for Root Zone Mixes		≥ 89% of Total	≤ 5% ≤ 10% w/ #140 + #270	≤ 3% ≤ 10% #10 + #18	≤ 10%	≥ 60% #35 + #60		≤ 20% #80 + #100		≤ 5% #140 + #270 & ≤ 10% w/ Silt + Clay
4 S	Premier Select 30 TDS	99.43	0.45	0.10	0.02	1.41	26.07	65.17	5.95	0.59	0.23	0.02

\*ASTM F1632 & C136 - Reported values are the average of two test samples

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**Particle Shape / Size Parameters / Cu / pH / EC**

Sample # & Type	Sample Description	Sphericity / Angularity	Cu	pH*		EC <sup>+</sup>
				H <sub>2</sub> O	CaCl	
4 S	Premier Select 30 TDS	Low to Medium Sphericity, Angular to Sub-Angular	1.74	--	--	--

\*ASTM D4972 Method A [pH meter] with water & Calcium Chloride solutions, <sup>+</sup>Agron. 9, Pt 2, 167-173, ASTM F2396: Cu 2.5 to 4.5

**Sphericity & Angularity**



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**Comments:**

The Premier Select 30 TDS sample was received dry. The tests were conducted on the sand as received. The test results describe a sand that complies with the USGA's recommended specifications. It is a sand with over 91% of the particles retained on the 35 & 60 sieves [0.25 mm to 1.0 mm]. It is a sand that is well suited for topdressing purposes. The angularity of the sand should provide excellent firmness and stability in spite of the relatively low coefficient of uniformity [Cu].

[Note: The opinions expressed in this report are outside the scope of the A2LA certification in accordance with ISO/IEC 17025, as amended from time to time.]

Sincerely;

**New Mix Lab**

A handwritten signature in blue ink, appearing to read 'R. Oppold', written over a circular scribble.

by:

Robert S. Oppold, COO  
Quality Manager