



TESTING TECHNOLOGY FOR SPORT

# Laboratory Study

## Aragonite Natural

Report Number: 96551/8111

Report Status: Final

Client: Calcean Minerals & Materials LLC

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TESTING TECHNOLOGY FOR SPORT

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### REGIONAL LOCATIONS

-Seattle, Washington

-Columbia, Missouri

-Dallas, Texas

-Los Angeles, California

-Montreal, Quebec

## Foreword

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<b>Date:</b>	04/03/26	<b>Date:</b>	04/03/26
<b>Signed:</b>		<b>Signed:</b>	
<b>Test Laboratory</b>			
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### Test Method:

- *FIFA 14: Procedure for the determination of heat on artificial turf products*

### 2" Blended Product with Thatch 18"x18" Dry and Wet Samples were Tested:

- 2 lbs. SBR and 4 lbs. Sand
- 5 lbs. Sand and 5 lbs. Aragonite Natural

**Note: The wet sample was treated with 64 oz. of water using a pump sprayer.**

Heat Test Dry			Heat Test Wet	
2" Blended Product with Thatch 18" x 18" Sample, Dry			2" Blended Product with Thatch 18" x 18" Sample	
Elapsed Time [min]	2 Lbs.SBR /4 Lbs. Sand [°F] <i>Control Sample</i>	5 lbs. Sand/ 5 lbs. Aragonite Natural [°F]	2 Lbs.SBR /4 Lbs. Sand [°F] <i>Control Sample</i>	5 lbs. Sand/ 5 lbs. Aragonite Natural [°F]
0	89.6	76.5	78.3	74.7
5	107.8	88.2	98.2	79.9
10	115.7	93.4	104.5	81.4
15	120	97.3	109.4	82.9
20	123.6	100	110.5	84.4
30	127.9	104.2	113.2	86.7
40	131	107.6	115.2	88.7
50	132.6	109.9	116.1	91
60	134.8	112.1	117	92.1
75	136.2	114.4	116.8	94.1
90	137.8	116.6	125.4	95.2
105	138.7	118.2	128.7	96.4
120	139.8	119.3	131	97.3
135	140.7	120.2	132	97.5
150	140.5	121.5	133.2	98.2
165	142.2	122	132.8	98.6
180	142.2	122.9	133.7	98.8
<b>Category</b>	<b>2→3</b>	<b>2</b>	<b>2</b>	<b>1</b>

Category	Temperature Range [°F]	System Category
1	<122	
1→2	122→130	
2	131→139	
2→3	140→149	
3	>149	

**End of Report**