

Cemex Materials UK Ltd  
National Technical Centre  
The Old Cement Works  
Long Itchington  
Southam  
CV47 9RA

Date: 04 April 2024  
Test Report Ref: TR 1014857

Contract: Test List - 05

Page 1 of 2

**LABORATORY TEST REPORT**

**TEST REQUIREMENTS:**

To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

**SAMPLE DETAILS:**

Certificate of sampling received:	No
Laboratory Ref. No:	S118329
Client Ref. No:	1092
Date and Time of Sampling:	15/01/2024
Date of Receipt at Lab:	07/02/2024
Date of Start of Test:	21/03/2024
Sampling Location:	Unknown
Name of Source:	Doveholes
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MW
Material Description:	Type 1/6N
Target Specification	SHW Series 800: clause 801.15

**RESULTS:**

Were any unrepresentative lumps present? No

**Frost Heave Test Result:**

Comparator Specimen - Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	13.0	(nearest 0.5mm)
Comparator Specimen 2	12.5	(nearest 0.5mm)
Comparator Specimen 3	13.0	(nearest 0.5mm)
<b>Mean</b>	<b>12.8</b>	(nearest 0.1mm) (limits: 13.6 +/- 4mm)
Test Specimen - Maximum Heave Observed in 96 hours (mm)		
Test Specimen 1	2.0	(nearest 0.5mm)
Test Specimen 2	3.0	(nearest 0.5mm)
Test Specimen 3	2.5	(nearest 0.5mm)
Range of Test Specimens Maximum Heave	1.0	(should not exceed 6mm)
<b>Mean Frost Heave</b>	<b>2.5</b>	(nearest 0.1mm)

In accordance with SHW Series 800: clause 801.15 the sample is classified as being  
**Non Frost Susceptible (mean frost heave ≤ 15mm)**

Test Report Ref: TR 1014857 Page 2 of 2

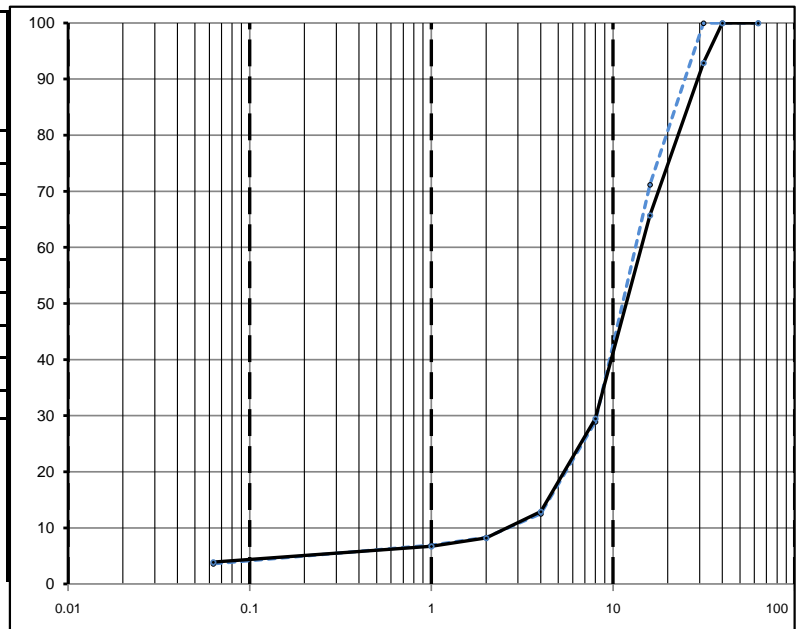
**RESULTS CONTINUED:**

**Laboratory Dry Density & Water Content Test Result**

Maximum Dry Density	2.03 Mg/m <sup>3</sup>
Optimum Water Content	3 %
Actual Dry Density	2.03 Mg/m <sup>3</sup>
Actual Water Content	2.9 %

**Particle Size Distribution Test Result**

BS Test Sieve Nominal Aperture	As Received Test Portion % Passing	Stable Test Portion % Passing
63.0 mm	100	100
40.0 mm	100	100
31.5 mm	100	93
16.0 mm	71	66
8.0 mm	29	30
4.0 mm	13	13
2.0 mm	8	8
1.0 mm	7	7
0.063 mm	3.6	3.9



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These results relate only to the items tested.

**Comments:**

None

Report checked and approved by:



Euros Jones

Technical Manager