

ASTM C666 Resistance of Concrete to Rapid Freezing and Thawing

Project Number: 2022.8078
Operator: L. ZEGLER
Checked by: T.Nelson

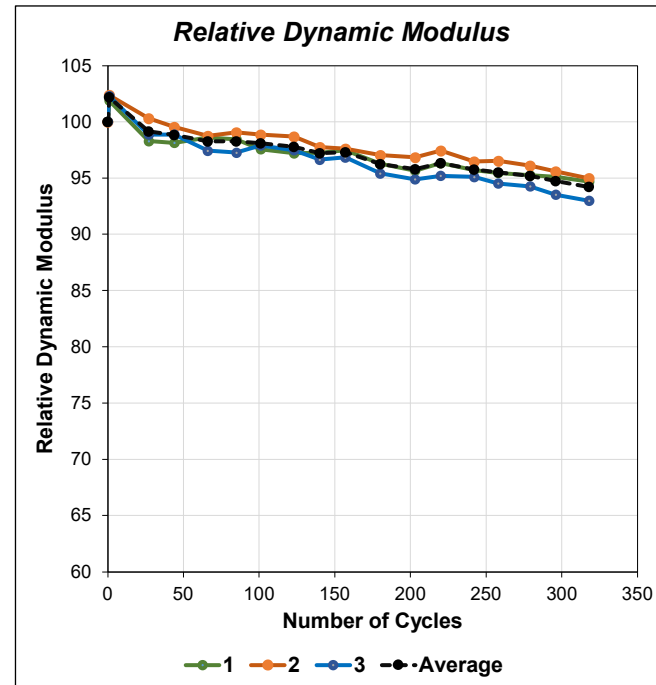
Project Coordinator: Todd Nelson
Date: 12/22/2022
Date: 2/20/2023

Geometry: <input checked="" type="checkbox"/> Prism <input type="checkbox"/> Cylinder	Source: <input checked="" type="checkbox"/> Cast <input type="checkbox"/> Core	Procedure/Apparatus: <input type="checkbox"/> A-Box #1 <input type="checkbox"/> A-Box #2 <input type="checkbox"/> B-Box <input checked="" type="checkbox"/> Other: <u>A/B</u>	Balance: <input type="checkbox"/> SN B543618517 <input checked="" type="checkbox"/> SN 1121330641 <input type="checkbox"/> Other: _____	Caliper: <input type="checkbox"/> SN B65697 <input type="checkbox"/> SN B65703 <input checked="" type="checkbox"/> Other: <u>995</u>
# of Samples: <u>3</u> Cast Date: <u>Not Known</u>				

Sample ID	Initial Length (in.)	Initial Depth (in.)	Initial Width (in.)	Initial Weight (g)
1	15.93	2.99	4.01	5896.2
2	15.95	2.99	4.02	5890.0
3	16.05	2.94	4.10	5959.5

Relative Dynamic Modulus

Date	Number of Cycles	1	2	3	Average
12/22/2022	0	100.0	100.0	100.0	100.0
12/22/2022	1	101.9	102.4	102.3	102.2
12/27/2022	27	98.3	100.3	98.9	99.2
12/30/2022	44	98.1	99.5	98.9	98.8
1/3/2023	66	98.6	98.7	97.4	98.3
1/6/2022	85	98.4	99.1	97.3	98.3
1/9/2023	101	97.6	98.8	97.9	98.1
1/13/2023	123	97.2	98.7	97.5	97.8
1/16/2023	140	97.2	97.8	96.6	97.2
1/19/2023	157	97.5	97.6	96.8	97.3
1/23/2023	180	96.3	97.0	95.4	96.2
1/27/2023	203	95.7	96.8	94.9	95.8
1/30/2023	220	96.3	97.4	95.2	96.3
2/3/2023	242	95.7	96.5	95.1	95.8
2/6/2023	258	95.4	96.5	94.5	95.5
2/10/2023	279	95.2	96.1	94.3	95.2
2/13/2023	296	95.1	95.6	93.5	94.7
2/17/2023	318	94.7	95.0	93.0	94.2



Durability Factor

Max. Cycles:	300												
Min. Relative Dynamic Modulus:	60												
	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>1</th> <th>2</th> <th>3</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>318</td> <td>318</td> <td>318</td> <td>--</td> </tr> <tr> <td>95</td> <td>95</td> <td>93</td> <td>94</td> </tr> </tbody> </table>	1	2	3	Average	318	318	318	--	95	95	93	94
1	2	3	Average										
318	318	318	--										
95	95	93	94										

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Mass Change, percent

Date	Number of Cycles	1	2	3	Average
12/22/2022	0	0.00	0.00	0.00	0.00
12/22/2022	1	0.04	-0.01	-0.01	0.00
12/27/2022	27	0.03	0.01	0.02	0.02
12/30/2022	44	-0.02	0.02	-0.02	-0.01
1/3/2023	66	-0.03	-0.03	-0.07	-0.04
1/6/2022	85	-0.01	0.00	-0.07	-0.03
1/9/2023	101	-0.02	0.00	-0.11	-0.04
1/13/2023	123	-0.02	-0.01	-0.09	-0.04
1/16/2023	140	0.00	0.02	-0.07	-0.02
1/19/2023	157	-0.01	0.02	-0.08	-0.02
1/23/2023	180	-0.01	0.03	-0.07	-0.02
1/27/2023	203	-0.03	0.04	-0.09	-0.03
1/30/2023	220	-0.02	0.03	-0.10	-0.03
2/3/2023	242	-0.01	0.02	-0.10	-0.03
2/6/2023	258	-0.03	0.01	-0.10	-0.04
2/10/2023	279	-0.03	0.01	-0.12	-0.04
2/13/2023	296	-0.05	0.00	-0.13	-0.06
2/17/2023	318	-0.05	-0.01	-0.16	-0.07

