

VTInr:21-001

Client	Potmix Products AB Marcus Ansala
Commission	Laboratory analysis
Test material	Bituminous mixtures
Test date	
Date of arrival of sample	2021-01-11
Test period	2021-03-03 to 2021-03-26
Marking of sample	AC10

Test material

The test material consists of bituminous mixtures (granulated) stored in a plastic bag of 20 kg. The material was prepared according to instructions from the customer (heating the material to 150°C with stirring) and compacted according to Marshall and Gyratory.

Analysis

The test material has been analyzed according to	Measurement uncertainty
• Specimen preparation by impact compactor SS-EN 12697-30:2019	-
• Bulk density, Procedure B according to SS-EN 12697-6:2020	±0,002 Mg/m ³
• Marshall test according to SS-EN 12697-34:2020*	-
• Specimen preparation by gyratory compactor according to SS-EN 12697-31:2019*	-
• Cyclic compression test according to SS-EN 12697-25:2016, Test method A1	±0,03%
• Determination of the dimensions of a bituminous Specimen according to SS-EN 12697-29:2002	±0,1 mm

* Note: Not accredited methods

Result

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Test Report Performed by
Research engineer
Signerat av: Andreas Waldemarson

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Reviewed by
Researcher
Signerat av: Abubeker Ahmed

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Results of Marshall Test According to SS-EN 12697-34

Material: AC10, Specimen preparation by impact compactor, 2 x 50 blows

Test temperature: 60°C

Sample	Bulk dens. g/cm ³	Thickness mm	Correction, c -	S kN	S Corr kN	F mm	Ft mm	S/F kN/mm
1	2.23	64.54	0.99	7.14	7.08	3.45	1.75	2.1
2	2.31	62.96	1.03	8.11	8.37	4.14	1.83	2.0
3	2.25	64.71	0.99	6.62	6.53	3.61	1.83	1.8
4	2.32	62.33	1.05	7.54	7.91	3.36	1.76	2.4
5	2.29	63.76	1.01	7.31	7.40	3.93	1.86	1.9
Mean.				7.34	7.46	3.70	1.81	2.03

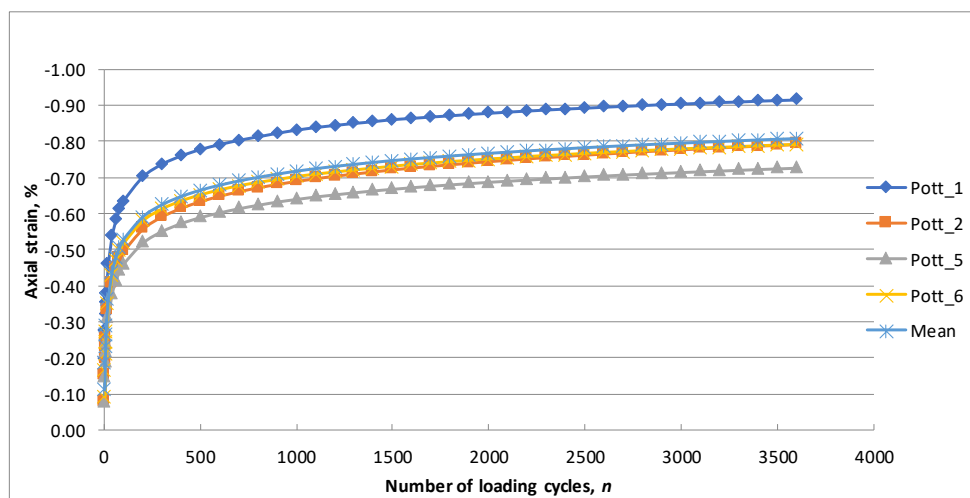
Results of Cyclic Compression Test According to SS-EN 12697-25:2016, Test Method A1

Material: AC10, Specimen preparation by Gyratory Compaction

Test temperature: 40°C

Material	AC10
Sample type	Gyratory prepared
VTI-nr	21-001
Analysis date:	2021-03-26

Sample	Thickness mm	Diameter mm	Bulk densitet g/cm ³	Creep modulus (n=3600) MPa	Axial strain (n = 3600) %
Pott_1	59.7	150.0	2.282	10.92	0.92
Pott_2	59.6	149.7	2.304	12.62	0.79
Pott_5	59.7	149.8	2.275	13.73	0.73
Pott_6	59.7	149.8	2.261	12.65	0.79
Mean	59.68	149.81	2.28	12.48	0.81
Standard deviation	0.05	0.15	0.02	1.16	0.08



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