

Procedure for Texture of Cold Milled and Micro-Milled Asphalt Concrete Surfaces

1. Scope:

This test is for measuring the ridge to valley depth of cold milled and micro-milled asphalt concrete surfaces.

2. Apparatus:

- 2.1 A gauge marked in 1/32" increments and capable of measuring to a depth of at least 1/2". An ordinary tire tread depth gauge meeting these requirements may be used.
- 2.2 Miscellaneous: 12" rule, 100' tape, broom or wire brush.

3. Procedure:

- 3.1 Randomly select 5 sites within the lot. If a random site falls within an area of pavement distress (e.g., fatigue cracking, transverse cracking, block cracking), move the site up to a maximum of 5' ahead or back to an area of sound pavement.
- 3.2 Remove all loose material from the site to be measured by brush or air pressure.
- 3.3 Determine and record the depth of 10 consecutive grooves in a straight line. Measure the deepest part of the groove within $\pm 1/2"$ of the straight line.
- 3.4 Perform calculations according to Section 4.
- 3.5 Verify if milling spacing is within specification and document on DOT-55A.

4. Report:

4.1 Calculations.

- A. Calculate the "Ave. depth" for each location to the nearest 1/32".

$$\text{Average depth} = \text{Site Total} / 10$$

- B. Calculate the lot average by averaging the 5 "Site total" numbers from each location to the nearest 1/32".

$$\text{Lot average} = \text{Sum of site totals} / 50$$

- 4.2 Report the test as being satisfactory, provided all the following conditions are met for each lot.

- A. The lot average is within specification (0" to 4/32" for micro-milling, 0" to 8/32" for cold milling.)

5. References:

DOT-55A

Sample ID 2242879

Surface Texture Measurements of Asphalt Concrete Surfaces

DOT - 55A
3-21

PROJECT PH 0066(00)15 COUNTY Aurora, Ziebach PCN B015

Date Tested 03/23/2021 Tested by Tester, One Checked by Tester, Two

Test No. 01

Area Represented Station 512+45 to Station 568+70 Road Width 16.0

SITE NO.	1	2	3	4	5
STATION	523+00	534+95	540+20	551+45	561+70
Dist. to CL	5.5' LT	10.0' LT	7.7' LT	3.2' LT	6.9' LT
	Depth (X/32)	Depth (X/32)	Depth (X/32)	Depth (X/32)	Depth (X/32)
1	4	5	5	3	6
2	5	5	1	3	6
3	2	2	3	5	4
4	1	4	3	2	1
5	3	3	6	5	1
6	3	1	2	6	3
7	1	2	4	6	2
8	5	2	3	4	5
9	2	4	2	5	1
10	6	5	4	3	5
TOTAL	32	33	33	42	34
Avg. Depth	3/32	3/32	3/32	4/32	3/32
Is spacing Within Spec (Enter Y or N below)					
SPACING	Y	Y	Y	Y	Y

Lot Average: 3/32

Notes: The lot average shall be between 0" to 1/4" for cold milling.
The lot average shall be between 0" to 1/8" for micro-milling.