


Example: Coating Thickness - Trace Method

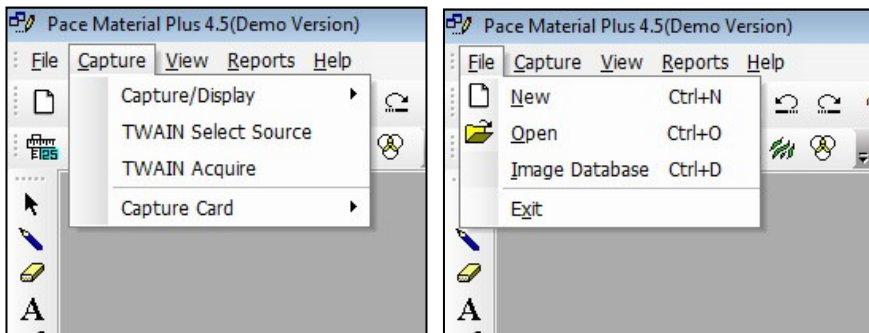
The Coating Thickness – TRACE method is a more accurate method than the parallel line method in case a layer cannot be separated on the basis of color intensity from the other coatings in the image.

PROCEDURE:

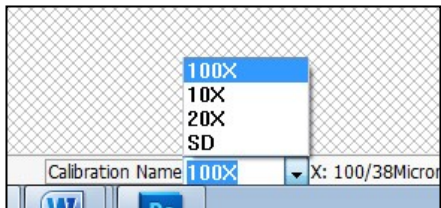
1. Load the coating thickness image for analysis.
2. Select the appropriate saved calibration scales from the drop down list at the bottom of the Window.
3. Click on the Coating Thickness icon  either from the Toolbar or from the Menu-bar
4. Open TRACE Method tag.
5. Activate USING MOUSE button.
6. Click on DRAW TRACE (draw both lines do not cancel to proceed-see next step)
7. A new dialogue box with instructions will appear.
8. Click left and hold mouse button at the starting point of the upper part of the first coating layer. Drag the clicked mouse slowly to the end of the layer.
9. Similarly click and hold the left button on the mouse at starting point of the next coating layer, dragging the mouse to the end of the second layer. This will automatically draw the MAX & MIN thickness points and display the results in the grid.
10. To transfer the data for the first coating to the grid click ADD
11. If additional layers are required repeat steps 5-9.
12. To save the report, click on REPORT.
13. A sample information window will appear. Fill the required information. Click on “Save Data For Report Tool”
14. Click on “TO EXCEL” to see the result in Excel.


EXAMPLE of Coating Analysis – Trace Method

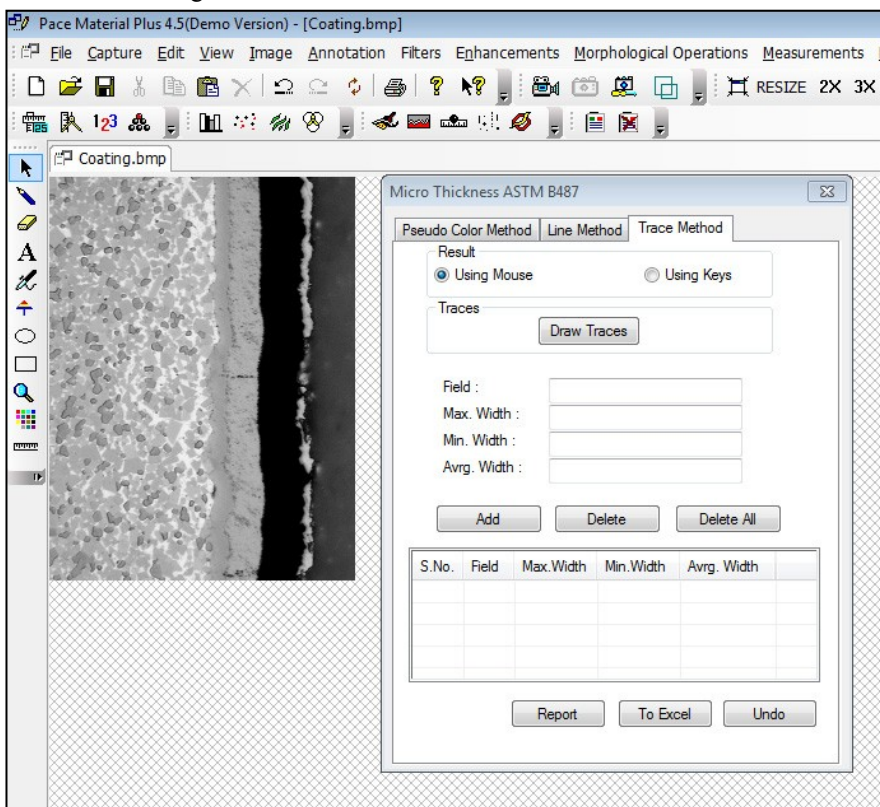
1. File > Open (select image) or Capture > TWAIN Acquire (for live image)



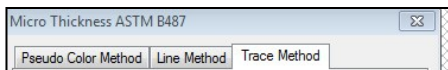
2. Select Calibration scale at bottom of the Window



3. Click on the Coating Thickness icon  either from the Toolbar or from the Menu-bar



4. Open TRACE Method tag.



5. Activate USING MOUSE button.

Result
☒ Using Mouse ☐ Using Keys

6. Click on DRAW TRACE (draw both lines do not cancel to proceed-see next step)

Traces

7. A new dialogue box with instructions will appear.

Micro Thickness(Trace Method)

Please draw FIRST Trace using mouse. While drawing trace, keep LEFT BUTTON of mouse pressed. Press CANCEL to cancel the measurement.

8. Click left and hold mouse button at the starting point of the upper part of the first coating layer. Drag the clicked mouse slowly to the end of the layer.
9. Similarly click and hold the left button on the mouse at starting point of the next coating layer, dragging the mouse to the end of the second layer. This will automatically draw the MAX & MIN thickness points and display the results in the grid.

Pace Material Plus 4.5(Demo Version) - [Coating.bmp]

File Capture Edit View Image Annotation Filters Enhancements Morphological Operations Measurements Re

Coating.bmp

Micro Thickness ASTM B487

Pseudo Color Method Line Method Trace Method

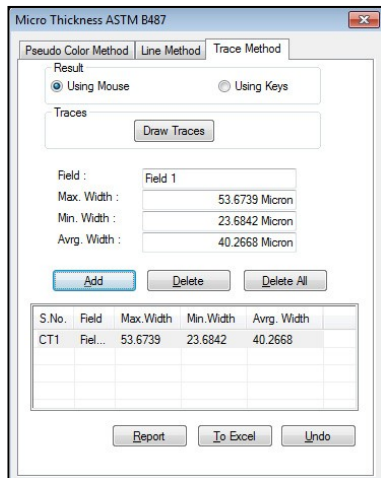
Result
☒ Using Mouse ☐ Using Keys

Traces

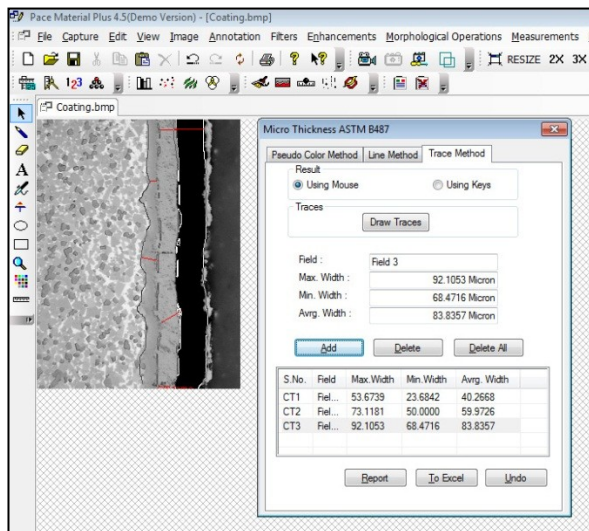
Field : Field 1
 Max. Width : 53.6739 Micron
 Min. Width : 23.6842 Micron
 Avg. Width : 40.2668 Micron

S.No.	Field	Max.Width	Min.Width	Avg. Width

10. To transfer the data for the first coating to the grid click ADD



11. If additional layers are required repeat steps 5-9.



12. To save the report, click on REPORT.
 13. A sample information window will appear. Fill the required information. Click on “Save Data For Report Tool”
 14. Click on “TO EXCEL” to see the result in Excel.

Grainsize9 [Compatibility]

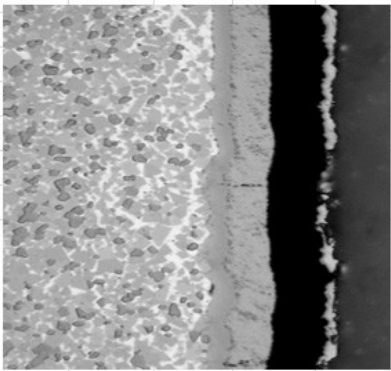
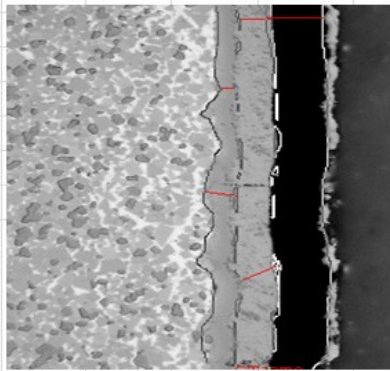
File Home Insert Page Layout Formulas Data Review View

Cut Copy Paste Format Painter Clipboard Font Alignment Number

S15

MICROMEASUREMENT TEST REPORT

NAME : APPLICATION :
EVALUATION DATE : OPERATOR :
SAMPLE INFO ID : MICROSCOPE OBJ :

Sr.No.	Field	Max.	Min.	Avrg.
CT1	Field 1	53.6739 Micron	23.6842 Micron	40.2668 Micron
CT2	Field 2	73.1181 Micron	50.0000 Micron	59.9726 Micron
CT3	Field 3	92.1053 Micron	68.4716 Micron	83.8357 Micron