

Example: Grain Size Analysis - ALA Method

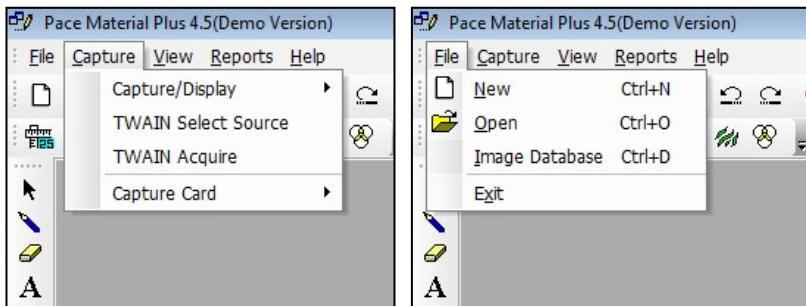
ASTM E930 is used to measure the grain size for materials with very large grain structures when there are not enough grains to use ASTM E112. For example, galvanized coatings can have very large grain structures. This standard determines the largest observed grain in the sample, often referred to ALA (as large as) grain size.

PROCEDURE:

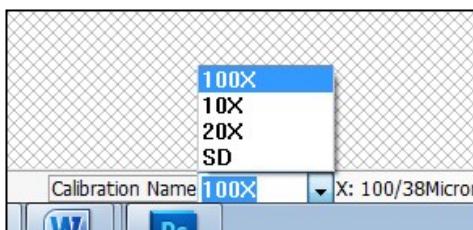
1. Load the image for grain size measurement.
2. Select the appropriate saved calibration scales from the drop down list at the bottom of the Window
3. Click on the Grain Size icon  either from the Toolbar or from the Menu-bar
4. Grain Size Measurement dialogue box will open. Select ALA Grain method.
5. Click on SET THRESHOLD. A new platform with two scroll bars will appear. Move both scroll bars until all of the boundaries are properly pseudo colored (filled in red). Click OK.
6. Click on MEASURE. Detailed results of each grain are displayed in the data grid. Every grain will acquire a different color according to its size. Click on COLOR DISTRIBUTION to obtain the color chart for each size.
7. To save the report, click on REPORT
8. A sample information window will appear. Fill the required information. Click on "Save Data For Report Tool"
9. Click on "TO EXCEL" to see the result in Excel.

EXAMPLE of Grain Size – ALA Grain Size Method

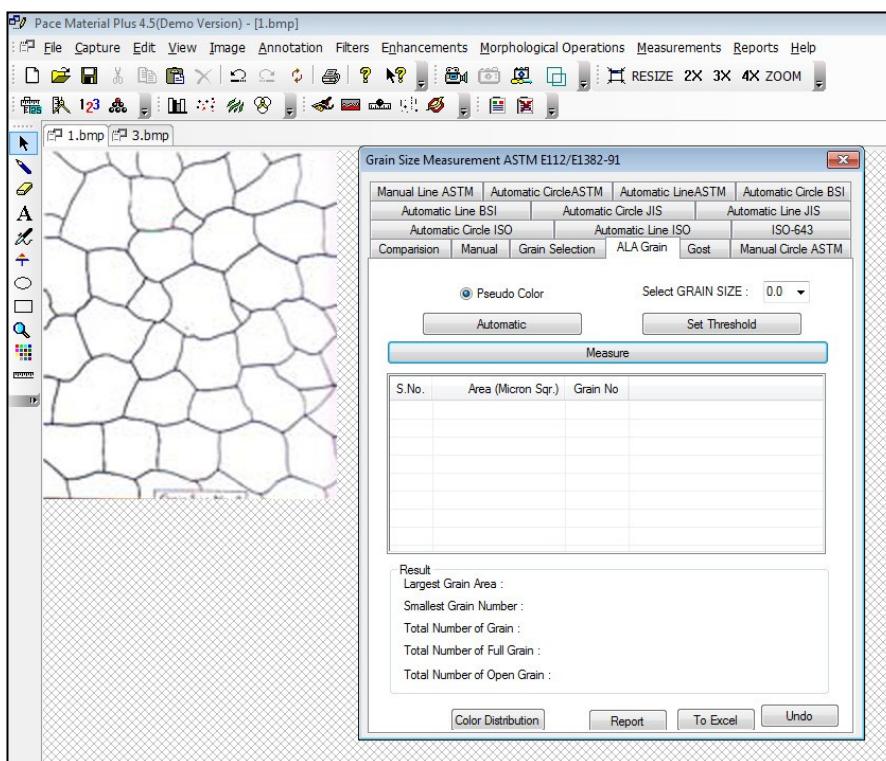
1. File > Open (select image) or Capture > TWAIN Acquire (for live image)



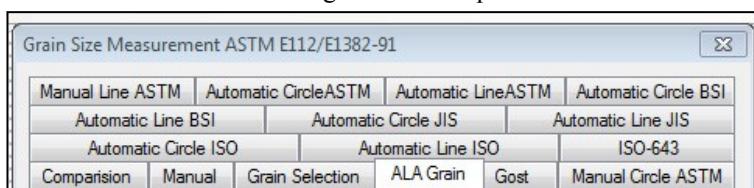
2. Select Calibration scale at bottom of the Window



3. Click on the Grain Size icon  either from the Toolbar or from the Menu-bar



4. Grain Size Measurement dialogue box will open. Select ALA Grain method.

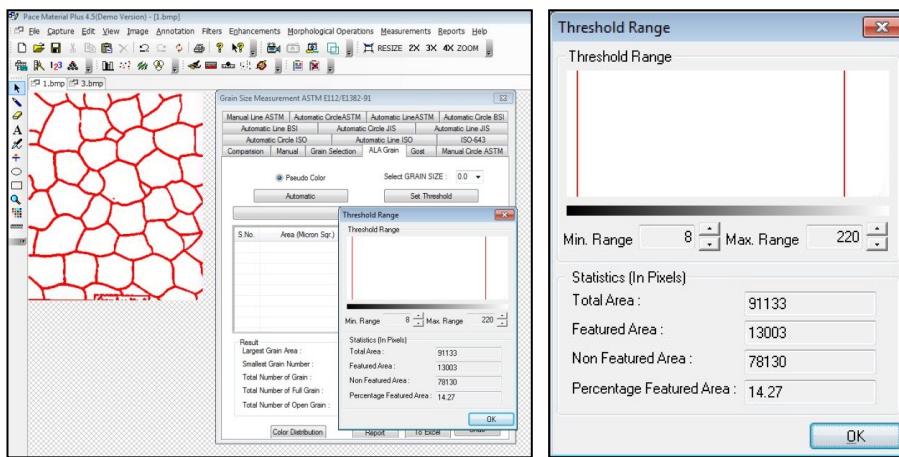


5. Click on SET THRESHOLD. A new platform with two scroll bars will appear. Move both scroll bars until all of the boundaries are properly pseudo colored (filled in red). Click OK

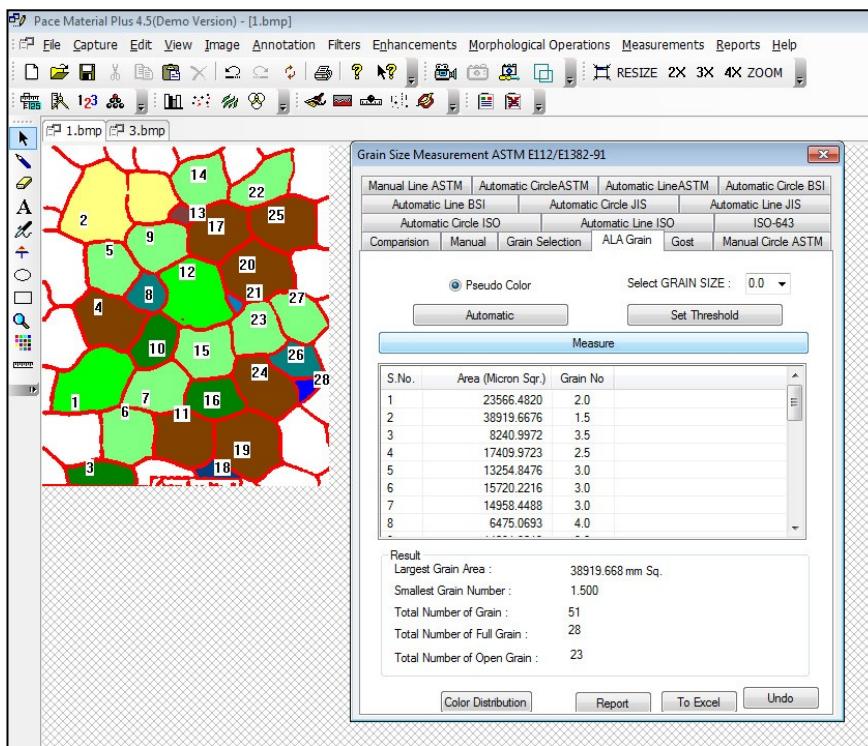


MATERIALS PLUS

Grain Size - ALA Method



- Click on MEASURE. Detailed results of each grain are displayed in the data grid. Every grain will acquire a different color according to its size. Click on COLOR DISTRIBUTION to obtain the color chart for each size.



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