

MATERIAL PLUS

A PACE TECHNOLOGIES PRODUCT

This module is specific for Segmentation



SEGMENTATION

ABOUT THE SEGMENTATION

Segmentation is a method of image partitioning on the intensity / grayscale range of its parts. Since a phase is detected and its area is estimated on the basis of its intensity / grayscale, an option for delineating phases from the histogram

is also provided. Multiple phases are identify by colored overlays and can be simultaneously displayed in the same field of view. The results and images displayed get stored in the industrial standard automatically.

To distinguish the phases prominently various filters like Despeckle, Smoothing etc can be used before doing the phase analysis.

A histogram for gray scale images is created once you open the Segmentation Module. The X-axis represents intensity scale between 0-255. The Y-axis represents number of pixels in the image.

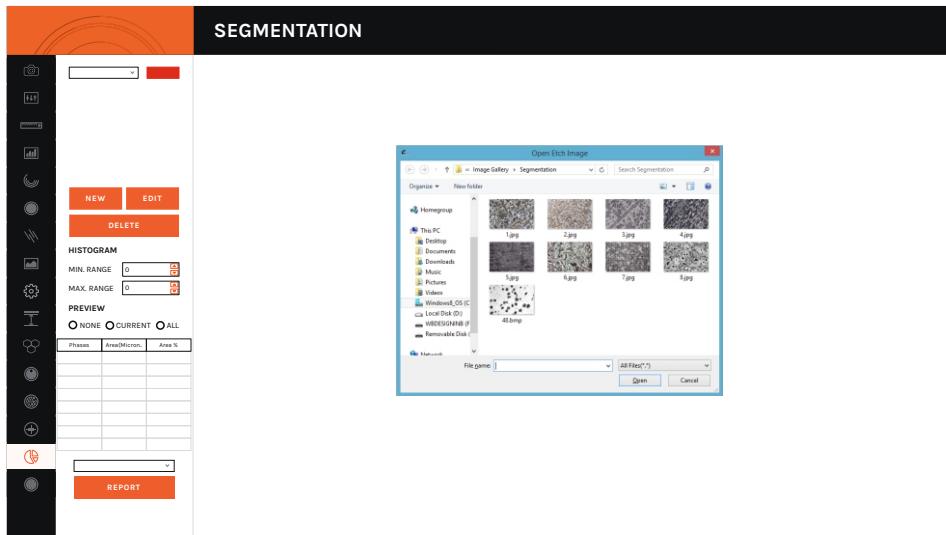
HISTOGRAM: Phase allows the user to designate up to ten different threshold settings to identify material phases and name each of these phases. The color between two lines signifies a particular phase.

INTENSITY: The Gray / Intensity range of the current phase gets display continuously in the dialogue box.

SELECTED PHASE: This property enable the user to know the percentage area of a specific range of intensity just by clicking the mouse. All previous operations have to be deleted and Preview should be on None.

1st Step

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2nd Step

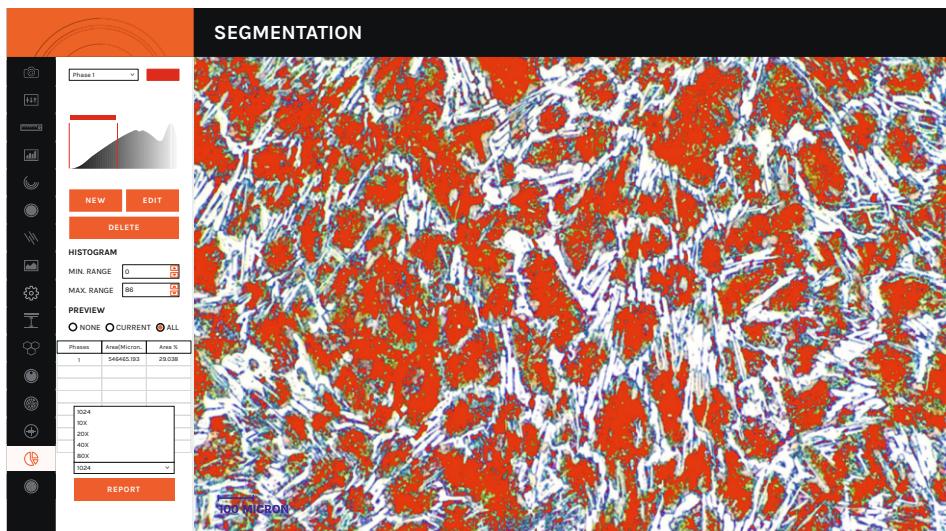
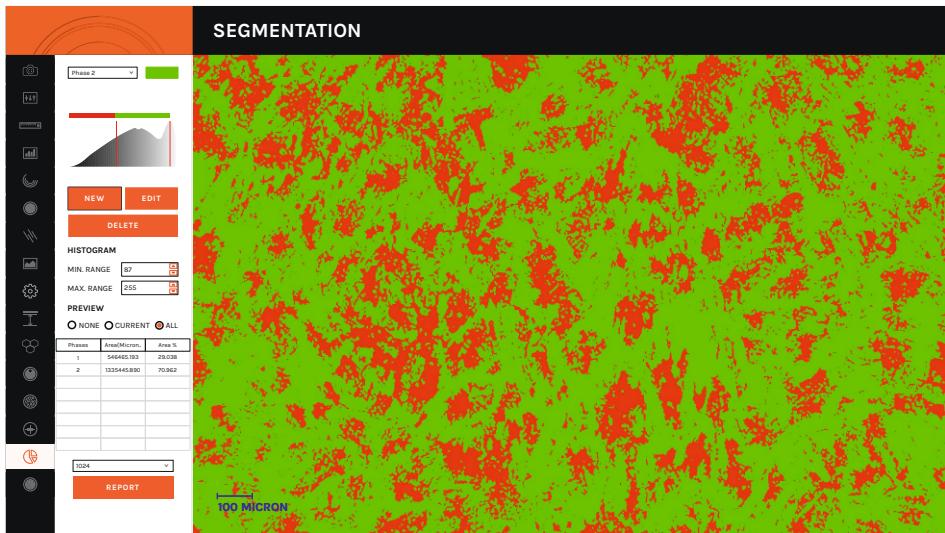


Fig-94

3rd Step

Fig-95



4th Step

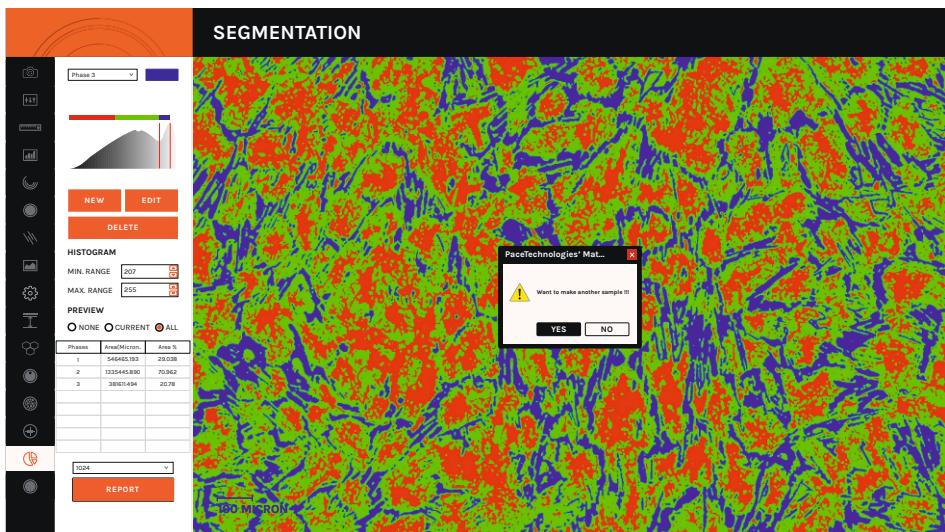


Fig-96

RESULT ARE AVAILABLE IN EXCEL IN A-4 SIZE

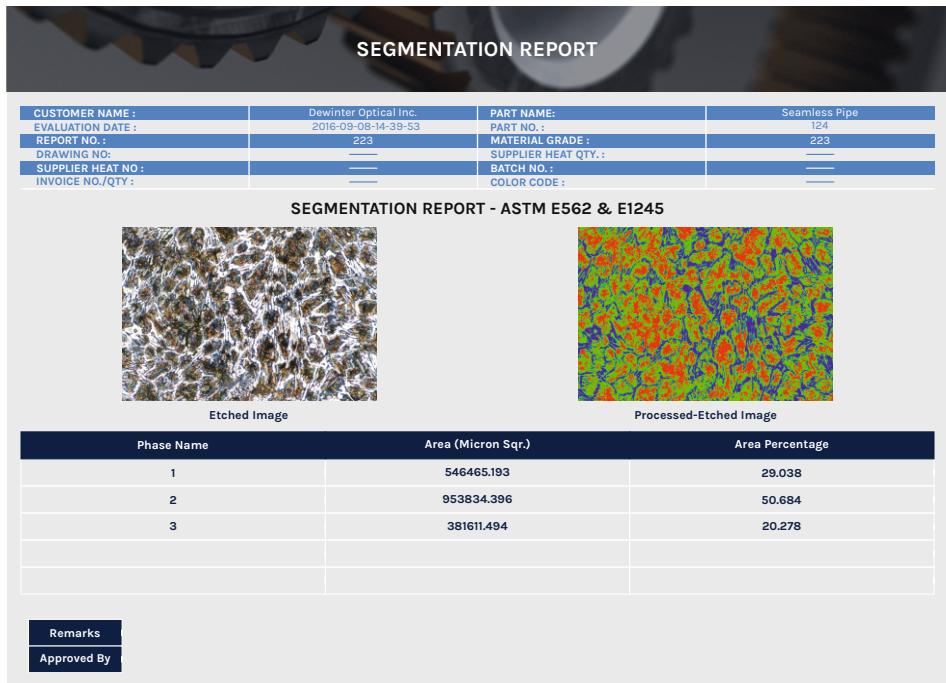


Fig-97