



ADVANCED MATERIALOGRAPHY

Software Inspect

Microscopic Evaluation & Report Generator



ATM INSPECT

Software for microscopic evaluation and generation of reports

The software package ATM Inspect is characterized by intuitive and user-friendly design and provides an extensive toolbox for microscopic evaluation and documentation of results. The software basis comprises a wealth of features and is adaptable to customer-specific tasks. It is easily extendable with a variety of add-on modules.

With ATM Inspect microscoping tasks are executed rapidly, easily and with utmost precision. ATM Inspect extends the range of functions of stereo microscopes and/or reflected light microscopes with interactive in-image-measurements and the generation of customized reports. Measurement and report templates help to increase throughput rates for routine tasks.

The automatic brightness adjustment and the automatic shading correction lead to fast and usable image results. Simple measurements like lengths and areas may be inserted into the image by using overlay elements. Additionally, the software basis provides measurement instruments for the statistical evaluation of layer thicknesses and grain sizes. Additionally, it is possible to load, to recalibrate and to size external images.

The software has been developed to accommodate either touch or mouse operation in a 64-bit-Version (WIN 7/8/10). A modular software structure allows the user to extend the portfolio of functions any time. The microstructure analysis add-ons increase the degree of automation for phase analyses, layer thicknesses and grain sizes.



INTERACTIVE MEASUREMENTS

- Measure lengths, areas, angles and free forms
- Alignment of objects using coordinates and angles
- Customizable in color, font, size and style
- Lock individual metrics
- Measurement templates for recurrent samples

REPORTGENERATOR

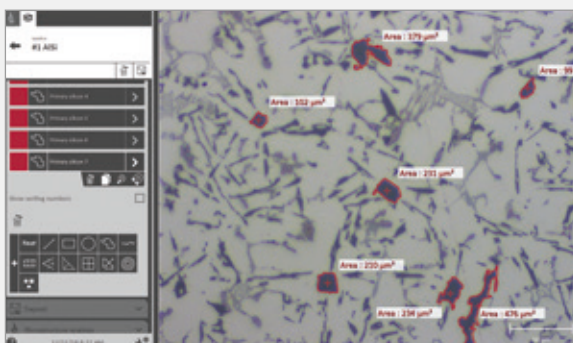
- Output of value tables, images and diagrams
- Insertion of form fields
- Individual styling with drag and drop
- Template management for recurrent test reports

Product Advantages

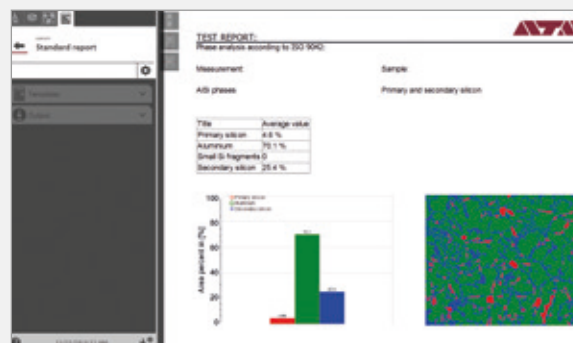
- ▶ Interactive in-image-measurements and report generator
- ▶ Compatible with reflected light microscopes and/or stereo microscopes
- ▶ Opportunity to integrate multiple microscope cameras
- ▶ Result documentation via images and customized reports
- ▶ Extensible with microstructure analysis add-ons

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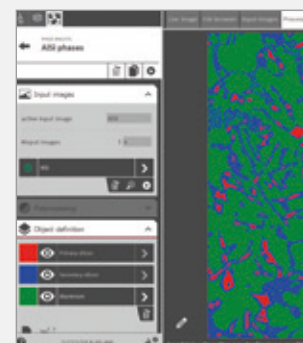
Functions and Add-Ons at a glance



Interactive Measurements



Report Generator



Add-On Phase Analysis

ATM INSPECT Add-Ons

Analysis of Microstructure Made Easy

Features such as live image capture/loading and recalibration of stored images (PNG, JPG, TIFF, BMP) and stacking of multi-images help to grab and manage the data. Pre-processing filters (smoothing, sharpening, normalizing etc.) ensure easier processing and a perfect image. Objects can be defined with morphological filters by gray and/or color threshold values and selected by object dimension.

INSPECT PHASE ANALYSIS

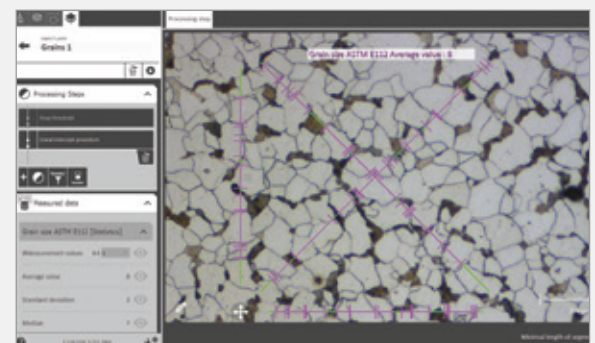
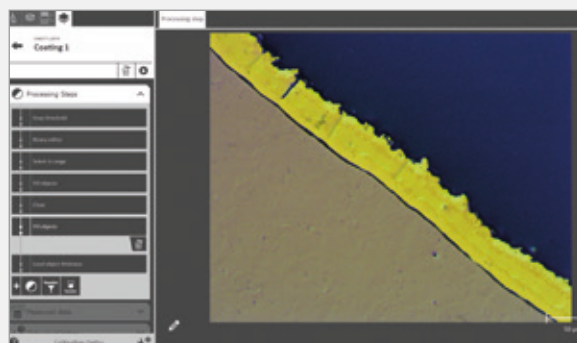
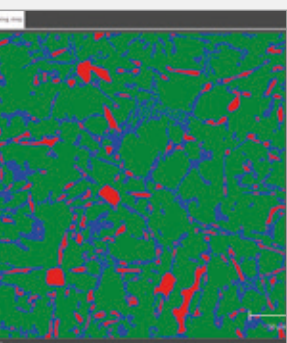
- Automatized image object measurement
- Measurement of phase fractions according to ISO 9042 and ASTM E562-11
- Output of analysis results in terms of the relative/absolute area in tables or graphs

INSPECT COATING THICKNESS

- Measurement of coating thickness according to DIN EN ISO 1463
- Semi-automatic measurement of horizontally and vertically aligned coatings and curved coatings
- Output of analysis results in terms of individual thicknesses in tables or graphs

INSPECT GRAIN SIZE ANALYSIS

- Measurement of the grain size according to DIN EN ISO 643 and ASTM E112-13 including lineal and circular intercept procedures
- Acquisition of statistical quantities of the grain size as well as of the grain intercept lengths
- Output of analysis results in terms of tables and graphs



Add-On Coating Thickness

Add-On Grain Size Analysis



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