

Multiple Phase Percent Area



Scentis Image Modules

Designed for use with Struers
Scentis Lab Management System

Introduction: The Multiple Phase Percent Area Module is specifically developed with accuracy and repeatability in mind. By utilizing the latest image analysis techniques a user can accurately determine the percent area of up to 5 distinct phases. Percent Area measurements have found application in ASTM and ISO norms ranging from second-phase constituents to inclusions to thermal-spray coating.

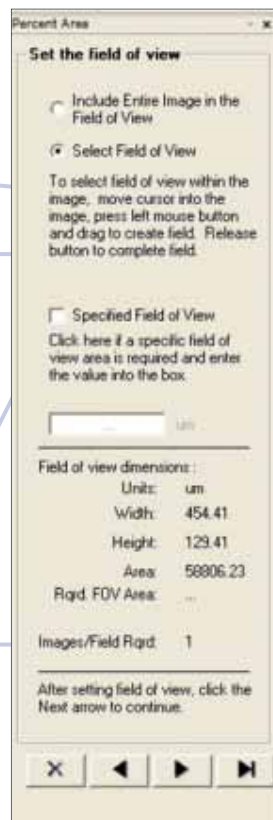
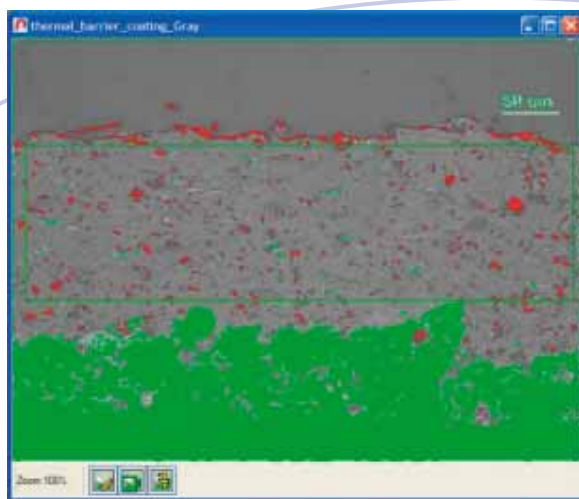
Whether you're a seasoned image analysis professional or a novice, you will find the intuitive interface and Wizard features of this module reassuring as you greatly improve both the quality and throughput of your testing.

Percent Area Measurement

- Accurately determine percent area on up to 5 distinct phases
- Typical areas of application include analysis of:
 - Secondary (3rd, 4th, 5th) phase measurement
 - Voids
 - Porosity
 - Cracks
 - Fiber lay-up
 - Particulate fill
 - Delamination /separation
 - Contamination

Reporting Options

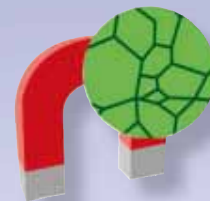
- Multiple reporting options include:
 - Raw data reporting
 - Built-in report generator using List & Label[®]
 - Export to Microsoft Excel[®]



Optional plug-in image analysis modules provide state-of-the-art evaluation methods for everything from grain sizing to inclusion rating. Employ image analysis modules for evaluations according to international standards.

Why purchase an image analysis system with features you will never use? With Scentis you only purchase the image analysis modules you need.

The Scentis image modules allow you to perform sophisticated analysis very easily. Simply select the appropriate analysis module and follow the intuitive guidance of the built-in wizards.



New to image analysis?

Try the built-in Scentis Wizard for simple step-by-step assistance through the entire process.

A seasoned professional?

Get directly to the analysis with powerful built-in tools.

Desire repeatability?

Easily establish a "best practice" by utilizing the built-in technique recorder.

Desire reproducibility between operators or multiple laboratories?

Share your methods with other module owners using our unique "setup" filing structure.





Percent Area - Specimen - 2

Phase Percent Area

Specimen

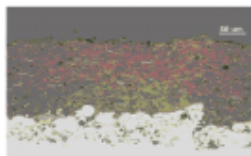
Specimen Name : Percent Area - Specimen - 2
 Specimen Area : 58806.20
 Specimen Fields : 1
 Number of Specimens : 1

Calibration

Name : Demo TBC
 Unit : micronmeter
 Pixel Width : 0.7353
 Pixel Height : 0.7353

Field

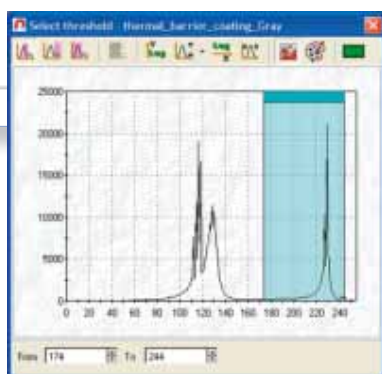
Field Width : 454.41
 Field Height : 129.41
 Field Area : 58806.23
 Required Field Area : 58806.23
 Images per Field : 1
 Number of Fields : 1



thermal barrier coating.tif

Phase % Area Results

Phase Description	Det. Low	Det. High	% Area Mean	Minimum	Maximum	Std. Dev.
porosity	001	084	1.843	1.843	1.843	0.000
contamination	174	244	0.308	0.308	0.308	0.000



Percent Area

Phase Identification

Enter the phase or structure name in the boxes below. Then click the button below each name to set its detection level.

Phase or Structure Name	Level
Phase 1	Show
Detection Level	Not Set
Phase 2	Show
Detection Level	Not Set
Phase 3	Show
Detection Level	Not Set
Phase 4	Show
Detection Level	Not Set
Phase 5	Show
Detection Level	Not Set

After entering phase names and detection levels, click the Next arrow to accept the entries and continue with the analysis. Click the Back arrow to return to the previous step.

Scentis Image Modules

A large number of image analysis modules are available, many of which conform to ASTM, ISO and DIN standards:

	Code:	Cat. no:
Multiple Phase Percent Area	SCIPA	36003001
Grain Sizing	SCIRA	36003002
Inclusion or 2nd-Phase Constituent Measurement	SCIND	36003003
Particle Size / Sphericity	SCIPS	36003004
ASTM E384 Microindentation / Macro Hardness Measurement	SCIMI	36003005
Brinell Hardness Measurement	SCIBI	36003006
Thickness, Layers and Coatings	SCITI	36003007
Graphite in Cast Iron	SCICI	36003008
Dendritic Arm / Cell Spacing	SCIAS	36003009

The Scentis image modules allow you to perform sophisticated analysis very easily. Simply select the appropriate analysis module and follow the intuitive guidance of the built-in wizards.

For further information on these modules, contact your local dealer. You can also visit us at www.struers.com

Struers' products are subject to constant product development. Therefore, we reserve ourselves the right to introduce changes in our products without notice.



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