

Automatic Quality & Process Control for all Types of Filter Materials



Industries

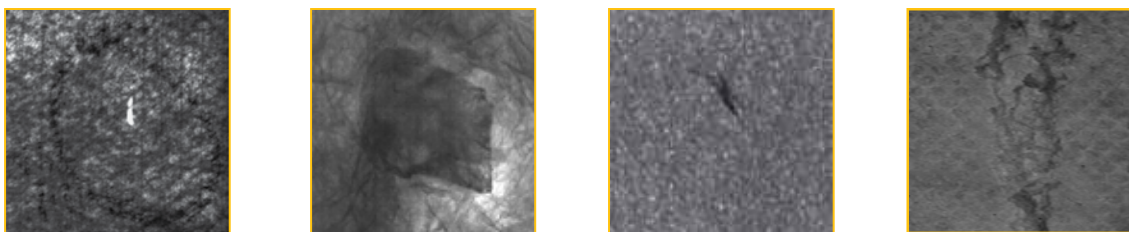
- Automotive
- Food / Beverage
- Chemical
- Pharmaceutical / Biotech
- HVAC / Household appliances
- Medical
- and many more

Filter material defects

- Contaminations, e.g:
 - Oil stains
 - Particles
 - Foreign fibers
- Irregular fiber distribution:
 - Thick spots / Thin spots
 - Holes
 - Roping
- Streaks
- Wrinkles
- and many more

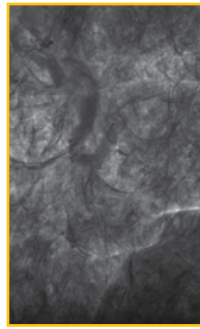
Highest quality for base filter materials

Filtration products are used in a multitude of applications and environments. They have in common extremely high quality standards for the used filter material - for health, environmental and safety reasons. Dr. Schenk's EasyInspect and EasyMeasure inspect filter materials for all defect types and irregularities, ensuring that only regulation-conforming and high-standard products reach the customer.

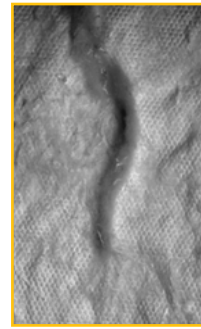


EasyInspect - Powerful inspection for all filters with MIDA

EasyInspect uses MIDA (Multiple Image Defect Analysis) technology to inspect filter materials with multiple optical channels on one single scan line. One defect is seen from different perspectives. The defect information from the different channels is combined, ensuring the most comprehensive defect classification and material qualification. For the demanding and highly critical quality requirements in filtration materials, this is the optimal way of getting all information about the defect.



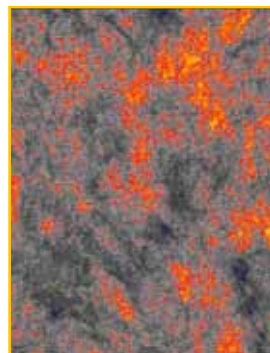
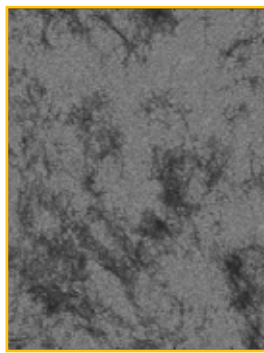
Transmission
Brightfield



Reflection
Brightfield



Reflection
Darkfield



EasyMeasure shows a detailed image of homogeneity variations on the material. The homogeneity can be shown in a gray image or in a false color image for better analysis.

EasyMeasure monitoring

Material homogeneity, grammage and mechanical stability are important material properties for a filter material, being crucial for achieving the desired properties of the resulting filter product. Dr. Schenk's EasyMeasure offers complete monitoring of these aspects for the full material width with more than 65.000 gray levels. The high performance of the inspection system allows the detection of large-scale inhomogeneities (like material cloudiness) in high resolution and great detail.



Documented quality for production

High-quality base filter material is the basis for applications like hospital ventilation systems, automotive filters, food and beverage processing filters, indoor air quality filters and many more high-tech, safety and health critical products. Dr. Schenk does not only provide the best defect detection and material monitoring for base filter material. With an SQL database and powerful reporting tools, fully automatic quality documentation for each meter of inspected filter material is ensured, giving valuable process feedback and protecting manufacturers from unjustified recourse claims.

About Dr. Schenk

Dr. Schenk GmbH offers inspection and measurement solutions for automated quality assurance and production process control - a key success factor in the making/converting of plastics, textile materials, nonwovens, paper, metal, or glass, for a multitude of markets like display glass, automotive, packaging, medical, renewable energy, and many more. From modular standard units to highly customized systems – Dr. Schenk's solutions have precision in focus!

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