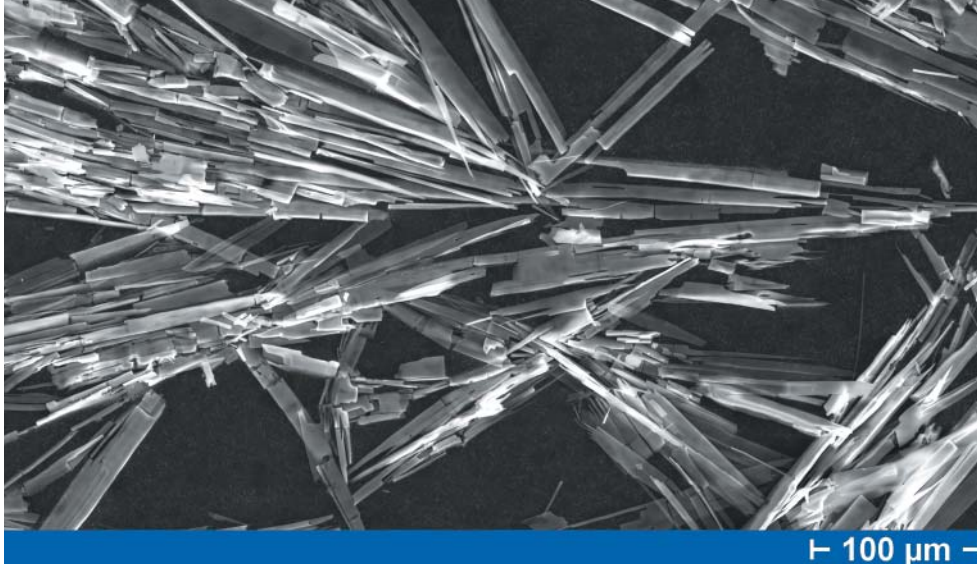




Industrie Service

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Scanning Electron Microscopy

During the planning, construction and operation of technical facilities and components a lot of factors have to be taken into consideration. In addition to design and construction, the characteristics and processing of the used material play an important role. Materials are subject to mechanical-technological, thermal, wear and corrosive influences, all of which may lead to the component's failure. Don't take any risk here! Have your materials analysed and evaluated for the designated application, for their processing characteristics and their conditions. TÜV SÜD offers extensive methods for materials testing and analyses.

TÜV SÜD services

Within the scope of examining and consulting services in materials technology as well as failure analysis the accredited laboratories of TÜV SÜD offer the following investigations using scanning electron microscopy:

- sample preparation
 - surface cleaning
 - mounting of sample
 - sputtering with conducting layers

- investigation of fractured surfaces caused by mechanical, chemical or thermal action
- investigation of coatings, films and surface coverings
- chemical investigation with the EDX method
- investigation of metallurgical defects
- investigation of chemical attacks
- analysis of fibrous materials like asbestos, glas and mineral fibres
- documentation of results with digital image processing

Your Benefits

By combining different methods of material investigations we offer results on

- ▶ the aptitude of the material with reference to the purpose of application
- ▶ the processing characteristics of the material
- ▶ the condition of the material.

Our laboratories are accredited as per DIN EN ISO/IEC 17025 and as an inspectorate type A as per DIN EN ISO/IEC 17020.

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