

DITF TESTING LABORATORIES

Chemical Testing Laboratory for medical products

Chemical and physical testing to characterize polymers and chemicals, in particular, for manufactured absorbable and non-absorbable medical products.

This includes e.g. GC-MS, NMR, FTIR, UV, ICP, DSC, as well as water content and viscosity measurements.



Biological testing services

We offer tests for in vitro cytotoxicity as a fundamental part of biological evaluation of medical devices as well as microbiological tests for biocontamination control and hygiene monitoring, evaluation of surgical textiles but also a



wide range of tests for determination of antimicrobial activity. Complementary topics are cell and tissue culture technologies of human and animal cells as well as regenerative medicine.

In addition, the Biological Testing Laboratory offers tests for body compatibility of primarily skin-near textiles according to the quality label "MEDICALLY TESTED – TESTED FOR TOXINS" of the association FKT (Förderungsgemeinschaft Körperverträgliche Textilien e.V.) and chemical tests for harmful substances in textiles.

The services of the Biological Testing Laboratory and Chemical Testing of medical products are offered by the ITV Denkendorf Produktservice GmbH – a technology transfer centre of the DITF.

RESEARCH – FROM MOLECULE TO PRODUCT

The German Institutes of Textile and Fiber Research (DITF) are Europe's largest textile research center. With their research and development projects, they are the only textile research institution in the world to cover the entire textile production and value chain.

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The DITF are members of the innBW and the ZUSE community.



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DITF
DEUTSCHE INSTITUTE FÜR
TEXTIL+FASERFORSCHUNG

TESTING OF FIBERS, YARNS, SURFACES AND TEXTILES

COMPETENCE IN
TESTING TECHNOLOGY
AND ANALYTICS

COMPETENCE IN TESTING TECHNOLOGY AND ANALYTICS

The essential competency and business unit area of the DITF besides research, is textile testing, but also the analytics of fiber-based materials. The DITF has established several testing laboratories since its founding and offers a comprehensive catalog of services for testing fibers, yarns, surfaces, and textiles.

Competent and experienced

The well-trained specialists in the DITF test laboratories come from a wide variety of testing and quality assurance areas. Natural scientists, engineers, specialized laboratory assistants and technical assistants with many years of experience in the testing of textile pre-products and textiles. They have specialist knowledge as well as extensive background knowledge from the manufacturing processes. This is necessary for the precise implementation and evaluation of test results and for the assessment of damage cases.

Well-resourced and accredited

The DITF testing laboratories offer comprehensive technologies for the research and testing of fiber-based materials and textiles. Modern technologies, versatile laboratory equipment, and optimal test procedures enable a standardized, yet cost-effective solution. Another strength of the DITF Laboratories is their ability to customize tests and develop customer specific tests.

The most modern testing, as well as test technologies and procedures, are available for the examination of textiles, chemicals, and organic compounds.

The Textile Laboratories of the DITF as well as the biological and chemical Testing Laboratories of the ITV Denkendorf Produktservice GmbH are accredited according to:

DIN EN ISO/IEC 17025 by the DAkkS Deutsche Akkreditierungsstelle GmbH

SERVICES



The laboratories work on a wide variety of issues relating to fibers, filaments, precursors, textile surfaces and end products. This can be used for routine quality monitoring or to support research and development or in the event of a claim.

The DITF-Laboratories offer an extremely wide range of products with the following main tasks:

- > Standard textile tests and application-oriented tests
- > Technical testing support for all textile production stages
- > Preparation of specifications, expert opinions and damage analysis for textile products
- > Cooperation with standards committees (DIN, EN, ISO committees), standardization of suitable test methods
- > Development of new test methods and test equipment technology
- > Setup of customer-specific tests

DITF TESTING LABORATORIES

The testing services are orientated towards research and industrial requirements and are divided into five testing laboratories. The services are used to provide technical testing support to small and medium-sized companies as well as large companies, but they are also used internally to support the DITF's own R&D and production departments.

Textile testing laboratories

Standard tests and application-oriented tests on fibers, yarns, textile fabrics (woven, knitted fabrics, scrims, braids, nonwovens) and composites from the entire textile value-added chain, testing of the puncture resistance of protective fencing clothing as well as mechanical, thermal, biophysiological and chemical assessment of fiber-based materials and products in the field of technical textiles. Among others also emission tests, electrostatics, clean room suitability and environmental simulation of technical textiles.



Textile chemistry and chemical fiber testing laboratory

Chemical and physical methods for the characterization of polymers, fibers and textiles. These include thermoanalytical methods (DSC, TGA, TMA, STA), chromatographic (GPC, HPLC, GC-MS) and spectroscopic methods (FT-IR, X-ray wide and small angle scattering) as well as special analytical methods (RAMAN microscope and MALDI-TOF). An important competence area is the microscopy department, which is among other things equipped with a very modern SEM instrument.

