Process Safety Lab Testing

Precise data, analysis and tools for process safety decisions and action

In process safety, data is everything. Our comprehensive testing services—from dust explosion and chemical reaction hazards to electrostatic properties and thermal stability—help you and your team create safe operating parameters with precision and certainty. Our laboratories are state-of-the-art and staffed by experts in the field, experienced in what to look for and how to find it. Combining the best scientific capabilities in the business with the heart of people who care about safety, we equip you with the information you need when you need it.
How we do it

We run world-class testing laboratories.

Process safety testing focuses on assessing the flammability, combustibility, and thermal properties of materials—determining the temperature, pressure, and other conditions under which a fire or explosion will occur. Our deep understanding and experience in testing and the underlying science let us develop and modify new tests to generate the data needed to help you continually push and redefine the boundaries of science.

Dust Explosion Testing
Industrial dust explosions are a frequent occurrence, causing loss of life, injury, plant damage, loss of production, litigation and adverse publicity. Our wide range of laboratory tests determine the ignition sensitivity and explosion severity of your material and quantify the risk associated with the process, helping you determine the necessary precautions for prevention.

Gas & Vapor Explosion Testing
We offer a wide range of tests to develop data on the flammability performance of textiles, plastics and other materials, conforming to existing local and national standards.

Chemical Reaction Hazards
Our state-of-the-art technology and expertise in chemical process development and optimization bring fresh ideas to old processes and give you the resources needed for speedy solutions.

Regulatory and Transportation Testing
We offer the complete range of physico-chemical tests required for regulatory purposes—and peace of mind—in safe transportation of materials.

Process Safety and Electrostatic Instruments
With nearly 30 years of experience, we are the market leader in the design, manufacture, and supply of state-of-the-art electrostatic instruments, accessories, and safety services.

Electrostatic Properties Testing
We provide the industry with many years of collective experience in the highly specialized areas of electrostatic hazards, problems and applications.

Thermal Stability Testing
Our professionals have many years of industrial experience and expertise in thermal process safety and can provide total solutions to process and operational hazard analysis from compilation of basic data to solving thermal process safety requirements.

About Us
We are consultants and business partners to many of the world’s largest chemical, oil and gas, transportation, utility, pharmaceutical, and agriculture companies. Through a transformational approach, we guide clients in evolving both their organizational culture and their operational environment, enabling them to reduce exposures and injuries, save lives, protect assets—and in the process, achieve higher performance. DEKRA Insight represents the collective expertise of our legacy businesses, each an institution in safety.