



REMBE® Research+Technology Center GmbH



REMBE®
**Research + Technology
Center**

- Execution of explosion tests (component strengths)
- Proof of the functional safety of components under explosion conditions
- Fire tests
- Arc discharges
- Pressure tests



Deutsche
Akkreditierungsstelle
D-PL-21054-01-00

Consulting. Engineering. Products. Service.

REMBE® Research + Technology Center

Are you using materials or material combinations (dusts, gases and solids), for which you are missing the key explosion properties? Have you developed new applications or procedures, which are not considered in current rule codes?

We can test your plant components and materials for you. That means, we will develop the appropriate test setups and conduct the necessary tests for you.

Benefit from more than 45 years of experience in the field of global explosion safety! If necessary, it is also possible to conduct external approvals through nominated bodies which we can organize.

Our services:

- **Execution of explosion tests (component strengths)**
- **Proof of the functional safety of components under explosion conditions**
- **Fire tests**
- **Arc discharges**
- **Pressure tests**

What customers and experts are saying about RTC:

"... cooperated perfectly with REMBE® for many years in many test institutes. In-depth scientific know-how..."

*Richard Siwek
Owner FireEx Group*

"Very good cooperation during the standardization work through professional expertise and proximity to the customer."

*Kees van Wingerden
Chairman CEN TC 305 WG 3*

"Outstanding event when the explosion demonstration was conducted at the AZO facility, impressive event for new and even long-time employees, something that you don't get to see every day..."

*Gerhard Nied
Former technical director AZO GmbH + Co. KG*



Industrial processes and procedures are becoming increasingly complex, and are not absolutely predictable, despite modern simulation methods. Therefore, in many cases, the examination of the processes must be performed under actual conditions, in order to guarantee safe processes. The REMBE® Research + Technology Center provides the option to safely conduct the examination of such processes.

With pressure-resistant equipment from 250 litres to 15 m³, it is possible to carry out exothermic reactions, explosions or pressure tests in a safe manner.

Component tests with regard to the compressive strength according to EN 4126, or for explosion-proof devices according to EN 14460, can be conducted on the amply spaced testing grounds. Research and development for and with the manufacturers of such assemblies is well within our field of expertise through our many decades of testing experience. With very strong connections to globally recognized testing organizations, such as TÜV, Dekra EXAM, GEXCON and others, you'll be provided with the corresponding certificates from the respective bodies after a successful examination.

We will examine your media and applications while considering the following standards:

- **EN 14460 Explosion resistant devices**
- **EN 14797 Devices for the explosion venting**
- **EN 14373 Explosion suppression systems**
- **EN 15089 Explosion isolation systems**
- **EN 16009 Devices for the flameless explosion venting**
- **EN 16020 Explosion chimneys**

Since 1999, the REMBE® Research + Technology Center employees have been actively engaged in national (VDI) and international standardization bodies (CEN TC305 WG3), thereby supporting the standardization with practical aspects. The test requirements of the standards are constantly critically questioned regarding their feasibility and their economic viability.

We will gladly visit your company and conduct an analysis of your application. The decades of experience that our engineering team has acquired in testing and safety engineering, will simplify the creation of an application-based and realistic test scenario. This will guarantee a fast and uncomplicated implementation for you.

We can train your colleagues

The REMBE® Research + Technology Center GmbH can also carry out explosion demonstrations on your premises! The implementation of this presentation has been an integral part of the internationally leading POWTECH trade fair. Numerous events in this or a similar form were carried out by companies for the training of the employees, and to highlight the risk of explosions in the factories. The major chemical industry, filter manufacturers, equipment builders, breweries and dairy farms use the impressive information source provided by the live demonstrations in the context of sales meetings, company meetings and training programs.

You're welcome to call us at your convenience!

Video Live Demonstration



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