



REMBE® Research+Technology Center GmbH



REMBE®
**Research + Technology
Center**

- Performance of explosion tests (component strengths)
- Verification 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 substances or any kind of mixtures (dusts, gases and explosives), for which the explosion properties are unknown? Have you developed new applications or processes, which are not considered in current guidelines or standards?

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 notified bodies which we can organize.

Our services:

- **Performance of explosion tests (e. g. pressure resistance)**
- **Verification 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. Deep Profound scientific know-how..."

*Richard Siwek
Owner FireEx Group*

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

*Kees van Wingerden
Chairman CEN TC 305 WG 3*

"The explosion demonstration classed as an outstanding event at the AZO facility, impressive 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.

Components/Equipment can be tested according EN 4126 Pressure Equipment Directive, or for explosion pressure resistant equipment according to EN 14460, can be conducted on generous spaced testing ground. 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. To get the corresponding certificates after a successful examination we will support you with our very strong connections to globally recognized testing organizations, such as TÜV, Dekra EXAM, GEXCON and others.

Considering the following standards your individual process and substances are reviewed accordingly:

- **EN 14460 Explosion resistant equipment**
- **EN 14797 Explosion venting devices**
- **EN 14373 Explosion suppression systems**
- **EN 15089 Explosion isolation systems**
- **EN 16009 Flameless explosion venting devices**
- **EN 16020 Explosion diverters**

Since 1999, 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. Test requirements the above mentioned standards are constantly critically questioned regarding their feasibility and their economic viability.

We would be pleased to visit your company and conduct an analysis of your application. Our engineering team has decades of experience in testing and safety engineering. This leads easily to application-based and realistic test scenarios and guarantees a fast and uncomplicated implementation for you.

Training sessions for your colleagues

The REMBE® Research + Technology Center GmbH can also carry out explosion demonstrations on your premises! The performance 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 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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