

Explosion protection of equipment



WARNING
RISK OF
EXPLOSION

Minimizing explosion risks through testing, assessment and certification

Unsafe and unreliable operation of electrical devices in potentially explosive atmospheres can put people, property and reputations at risk, which is why devices intended for use in hazardous areas must meet particularly high explosion-protection requirements. For manufacturers operating in a world of ever-shorter product life cycles and an increasingly competitive global market, time is of the essence. At DEKRA we are specialized in providing quick and efficient ATEX and IECEx testing and certification services.



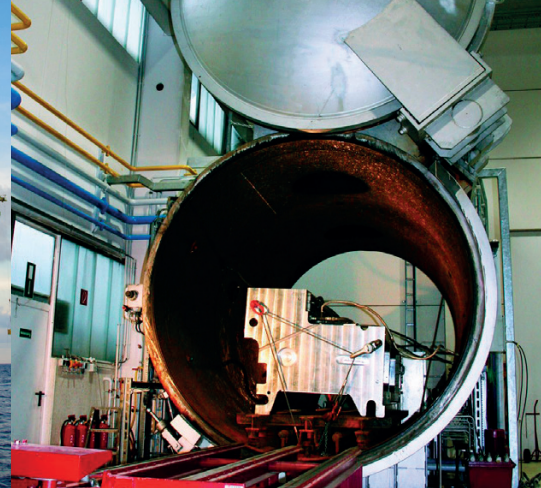
Examination and certification according to ATEX and IECEx

As a European Notified Body we test, assess and certify according to the ATEX Directive 2014/34/EU, amongst others. Furthermore, we are a founding member of the globally acknowledged IECEx scheme, through which we provide services both as a certification body (ExCB) and as a testing laboratory (ExTL) and cover the full product-related scope of the IECEx scheme.

The DEKRA explosion protection experts issue over 1,000 certificates every year. That would not be possible without their many years of long standing expertise in explosion protection as well as state of the art test laboratories with 13 explosion chambers ranging from 200l to 50.000l.

Whether your products are intended for use in gas or dust zones – we will accompany you through the entire EU conformity procedure: from revising your initial ideas and supporting the assessment of ignition hazards to the type examinations that may become necessary and the manufacturing control that is related to those examinations.

In addition to electrical and non-electrical equipment, we also examine and certify protective systems such as explosion valves, rotary valves, non-return valves and rapid action valves for their mechanical strength and prevention of transmission of internal ignitions.



International market access

DEKRA is chosen as a partner by many leading export-oriented manufacturers. We are a registered certification body in Japan for manufacturers who want to export their products used in explosive atmospheres and need Japanese explosion proof certificates. We are also accredited by INMETRO to assess and certify products according to Brazilian technical regulations.

Since the DEKRA test results are widely accepted internationally, we provide our customers a firm foundation for operating on a global scale. We are acknowledged by and collaborate with many national test and approval centers including FM Approvals, QPS, USCG and MSHA in the US, NEPSI and CQST in China, NANIO CCVE in Russia, as well as KTL, KOSHA and KGS in Republic of Korea.

The explosion protection laboratories of DEKRA are located in the Netherlands and in Germany. We provide local support also from our offices in the USA, Japan and Korea. Furthermore we operate a global network of auditors, enabling us to audit large customers with global manufacturing activities efficiently.

Additional services

Examining the electrostatic properties of materials and equipment including the assessment of charge processes during operation

- > Testing the functional safety of safety devices (from the risk analysis and assessment to the implementation by means of hardware and software)
- > Assessment and certification of a Functional Safety Management (FSM) system
- > CE conformity assessment according to both ATEX and Machinery Directive
- > Plant and process safety
- > IECEx 01, 02, 04 (equipment)
- > IECEx 03 Certified Service Facilities scheme for assessing and certifying explosion-related service facilities
- > IECEx 05 scheme for the certification of personnel competence for explosive atmospheres

Your benefits

Testing of explosion protected electrical devices for all types of protection. From flame-proof enclosures through intrinsic safety; we perform all tests according to EN IEC 60079

- > Single source for ATEX, EAC, IECEx and INMETRO audits
- > We have issued one of the highest number of trustworthy and valid IECEx certificates around the world
- > Explosion safety testing combined with electrical and functional safety, cybersecurity, EMC, etc.

About DEKRA

DEKRA has been active in the field of safety for more than 90 years and is one of the world's leading expert organizations in testing, inspection and certification. Our qualified and independent experts work for safety on the road, at work and at home. Among other things, they test and certify consumer, industrial, automotive and ICT products, as well as medical devices and products used in explosive for worldwide markets. DEKRA's mission is to be the global partner for a safe world.

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