



Certification of Equipment Used in Explosive Atmospheres

Market access made easy - benefit from a global partner for the certification of your equipment

Equipment and protective systems intended for use in potentially explosive atmospheres must comply with a range of regulations, standards and directives before they can be operated. As a manufacturer, you are responsible for obtaining the certification required in the country your equipment will be used in, and TÜV Rheinland is glad to help you go through this process.

The European Union (EU) Directive 94/9/EC (replaced from April 20th 2016 by Directive 2014/34/EU), commonly called “ATEX”, covers electrical and non-electrical equipment that is used in potentially explosive atmospheres. It relates to all equipment, protective systems, safety devices, controlling devices, regulating devices, and components – defined as any item that is essential to ensuring that equipment functions safely.

Compliance with the ATEX directive is mandatory to place your products into European market. Manufacturers and / or their local representatives are responsible for meeting the general requirements by applying all relevant EN European standards, based on the design and “protection methods” of the product. Proof of the compliance with this directive is the Ex-mark or Ex-proof, issued by accredited Notified Bodies like TÜV Rheinland.

Though in many other regions and countries around the globe, IEC Standards and European standards are recognized and used as national standards, there are places where manufacturers must apply other schemes to place products into the market. No matter if you look for an accredited Certification Body under IECEx Scheme, Inmetro for Brazil, Hazloc for the US and Canada (UL & NEC), TIIS for Japan or any other, TÜV Rheinland can help you to access those markets.

Your benefits at a glance - why TÜV Rheinland?

With our comprehensive solutions for explosion protection you can:

- Ensure product safety and compliance with occupational health and safety requirements worldwide.
- Reach full compliance and certification before to place your product in the market.
- Gain competitive advantage and greater market access with international and national certification marks.
- Benefit from our global presence, with explosion protection local resources (experts, laboratories) to help identify local requirements and assist with certification.
- Access a common shared-networked database, reducing waiting time for documents to be transferred between agencies through conventional methods.
- Significantly reduce approval time and cost by using harmonized standards and common test protocols.
- Reduce risk of company liability with documented safety standards.
- Benefit from our exclusive one-stop-shop service, covering a wide range of international certification from a single source.

A Comprehensive Range of Services for Equipment Used in Explosive Atmospheres

TÜV Rheinland offers you intelligent solutions for maximum safety, functionality, and trouble-free operation of your equipment and systems. From design to manufacturing, installation and operation – whether you need certification, testing, inspection or verification – we have the expertise and accreditations you need.

Design phase

During the design phase we can support you with the:

- Identification of all applicable directives and standards.
- Decision about the conformity route to follow.
- (Certified) Training and exchange of knowledge with our experts.
- Design verification, including explosion risk-related analysis, assistance in defining equipment groups and categories, verifying stress calculations, working drawings, equipment specifications and design codes.
- Type approval and certification under different schemes.

Manufacturing phase

During the manufacturing phase, we can help you by:

- Testing your products, supplies, components and final assemblies (also prototypes).
- Materials testing and production process testing and approval.
- Checking your quality assurance procedures, qualifications and training, parameter identification, feasibility and usability.
- Consulting in welding and materials technology.



About TÜV Rheinland

Since our founding in 1872, we have stood for safety, quality and efficiency in interactions between man, technology and the environment. We are convinced that progress in society and technological advances are inseparably connected. Safety, consulting and compliance are our contributions to global and local markets. Service is our profession and customer satisfaction our motivation. We follow our customers on their paths of international expansion and we are always aware of our responsibility as a global company. Our goal is to be the most successful, sustainable, independent and self-financed service provider for testing, inspection, certification, consulting and training.

Always a good sign.



This mark stands for all the information about products, services and systems that are tested, certified or inspected by TÜV Rheinland. Transparent, available anytime worldwide – powerful and unique. The TÜV Rheinland test mark.