



# **Explosive atmosphere**

Certification IECEx, ATEX, UKEX  
and user services

# What is your contribution to preventing explosions? Testing, certification and training from **SGS Baseefa**



SGS Baseefa is the leading, internationally recognised certification body for explosion protected equipment delivering both IECEx and ATEX/UKEX certification to customers around the world. Our activities extend beyond certification, providing an accessible source of expertise in many related areas. With over 300 years collective experience, we have extensive knowledge of the application of industry standards in many areas. We actively participate in committees formulating standards both at European and International level.

## **OUR SERVICES:**

### **IECEx, ATEX AND UKEX PRODUCT**

**CERTIFICATION:** for manufacturers of products intended to be installed in hazardous areas.

IECEx is the international scheme and fits with ATEX for sale in Europe and Northern Ireland, where the product must bear the CE Marking, and UKEX for sale in Great Britain, where the product must bear the UKCA Mark.

### **IECEx SERVICE FACILITY CERTIFICATION:**

Repair Workshops, where plant owners need a guarantee of workshop capability

### **IECEx PERSONNEL COMPETENCE**

**CERTIFICATION:** for those working in the Ex Industry as plant designers, installers, maintainers and inspectors

### **INSPECTION AND RISK ASSESSMENT**

**SERVICES:** to assist plant owners meet relevant safety legislation

**TRAINING SERVICES:** for manufacturers, users and installers of Ex equipment

We believe that customers value direct access to the individual engineers who will be working with them and we encourage contact by email, telephone or face-to-face meetings.

Making expert knowledge available to all our customers is a very important priority for us. We are happy to offer advice on an "as needed" basis, as part of our Technical Advice Service in conjunction with certification work, or through selected modules contained in Training Programmes. We are very careful about honouring the commercial confidentiality of our customers, and we avoid entering the field of design consultancy, which would obviously prevent us from acting as an independent certification body.

## **EXPLOSION PROTECTED EQUIPMENT**

Protection is a two part exercise: The equipment must be designed and manufactured to appropriate standards for a chosen "Type of Protection" and then must be installed, inspected, maintained and repaired taking into account further standards for these activities. In the European Free Trade Area, all these activities are subject to the requirements of two European Union Directives and in Great Britain to the equivalent UK Statutory Instruments.

The ATEX Directive 2014/34/EU and the corresponding UKSI 2016:1107 (as amended) cover everything related to the design and manufacture of the product, up to the point of "placing the equipment on the market".



ATEX 1999/92/EC and the UK Dangerous Substances and Explosive Atmosphere Regulations (UKSI 2002:2776) cover the other activities, as the equipment is installed and maintained, as well as aspects related to the running of a plant where materials are produced or stored that could lead to the formation of an explosive atmosphere.

Internationally, the IECEx Product Certification Scheme relates to the manufacture of equipment and the IECEx Service Facility Certification and IECEx Personnel Competence Certification Schemes relate to the installation, maintenance, inspection and repair of the equipment in service. IECEx Certification can be used to obtain locally acceptable certification where legislation so demands.

SGS Baseefa offers IECEx certification as the platform for accessing global markets as well as forming the basis of ATEX/UKEX certification if the equipment is to be sold in the European Free Trade Area or Great Britain.

#### TYPES OF PROTECTION

- Flameproof, Ex d – IEC 60079-1
- Intrinsic Safety, Ex i – IEC 60079-11
- Increased Safety, Ex e – IEC 60079-7
- Encapsulation, Ex m – IEC 60079-18
- Powder Filled, Ex q – IEC 60079-5
- Oil Immersed, Ex o – IEC 60079-6
- Pressurisation, Ex p – IEC 60079-2
- Non-sparking, Ex n – IEC 60079-15
- Protection by Enclosure for Explosive Dust Atmospheres, Ex t – IEC 60079-31

#### NON-ELECTRICAL EQUIPMENT AND PROTECTIVE SYSTEMS:

Originally considered for ATEX within the EN 13463 series of standards, all non-electrical equipment is now dealt with for ATEX UKEX and IECEx under EN ISO 80079-36 and -37, enabling world-wide certification alongside that required for Europe.

In the future, Protective Systems will also have international standards but, at present we work with the relevant EN, according to the particular type of protective system, such as; inerting, blocking or venting.

#### WHY SGS

We are SGS – the world's leading testing, inspection and certification company. We are recognized as the global benchmark for quality and integrity. Our 93,000 employees operate a network of 2,600 offices and laboratories, working together to enable a better, safer and more interconnected world.

**TO LEARN HOW SGS BASEEFA CAN HELP YOU WITH HAZARDOUS ATMOSPHERES**  
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**WHEN YOU NEED TO BE SURE**

