

Customs Union (EAC) Series Guidelines

Compliance Solutions for today's complex markets

EQUIPMENT IN EXPLOSIVE ENVIRONMENTS



Introduction

Equipment that is intended to be used in explosive environments requires one of the most complex certification procedures.

It covers electrical equipment, including Ex-components, and non-electrical equipment for use in explosive environments.

Products like enclosures that contain electrical and non-electrical components must be able to contain any explosion originating within its housing and prevent sparks from within its housing from igniting vapours, gases, dust, or fibres in the air surrounding it.

Although the certification can be compared to European ATEX/iECEx, the equipment, even if holding valid ATEX/iECEx Certificates, will still need to be submitted to an accredited Certification Body for approval.

The Regulation

Custom Union Technical Regulations control the quality of products on the markets of Russia, Belarus, Kazakhstan, Armenia and Kyrgyzstan.

In 2012 the Customs Union Technical Regulation, TR CU 012/2011 was enacted concerning the safety of equipment operating in explosive environments.

This technical regulation of the Customs Union establishes requirements for equipment for use in hazardous environments, which ensures that the safety of its use in explosive environments.

The regulations specify that a Certificate of Conformity (CoC) is required to demonstrate compliance with the technical regulation.



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Example Products Covered

- Switches
- PLC enclosures
- Pumps
- Valves
- Gauges
- Transformers
- Cable Glands and connectors
- Junction boxes
- Actuators
- Motors and Generators
- Lighting and accessories

Documentation Required

The following documents are required:

- Formal Application Form
- Applicants Incorporation and Registration documents
- Contract with the manufacturer confirming the authority of the applicant in the Customs Union
- Manufacturers certificates and reports (ATEX and/or iECEx)
- Contract, invoice and specification if applying for Shipment Certificate
- Technical Documentation, (Data sheets, operational manuals, design documentation, ignition hazard assessment for non-electrical products

- Information about tests/measurements performed by the manufacturer, authorised entity or accredited lab
- Samples for testing (if required by scheme)

Validity of the Certificate

The Ex Certificate may be issued for a single shipment or for serial production for a validity period of 1 to 5 years.

Product Marking

Products must bear the Ex marking and the Customs Union EAC mark

Applicant

In the case of the Ex Certificate the applicant must be a legally registered entity in the Customs Union.

Certification Timescales

Normal certification timescales are 20 to 45 days.

Please note that in some cases a certification Expert may have to complete a factory audit and/or obtain production samples for testing, which will increase the certification completion time.



Products may also require other Customs Union (EAC) certification:

TR CU 010/2011 On Safety of Machinery and Equipment

TR CU 004/2011 On Safety of Low-Voltage Equipment

TR CU 020/2011 Electromagnetic Compatibility of Technical Equipment

TR CU 032/2013 On Safety of High Pressure Equipment

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