



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx CCVE 16.0008U Issue No: 0 Certificate history:  
Issue No. 0 (2016-11-03)

Status: **Current** Page 1 of 4

Date of Issue: **2016-11-03**

Applicant: **"ZAVOD GORELTEX" Co. Ltd.**  
195176, Saint Petersburg, Revolutsii road, 18, lit. A  
**Russian Federation**

Equipment: **Empty flameproof enclosures types SHORVA..., KKVA...**  
*Optional accessory:*

Type of Protection: **flameproof enclosure d, protection by enclosure t**

Marking:  
Ex db IIC Gb  
Ex tb III C Db  
IP66

*Approved for issue on behalf of the IECEx  
Certification Body:*

Alexander Zalagin

*Position:*

Head of NANIO CCVE

*Signature:  
(for printed version)*

*Date:*

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**NANIO CCVE**  
Zavod ECOMASH, VUGI Settlement  
Lyubertsy, Moscow region  
140004  
Russian Federation





# IECEx Certificate of Conformity

Certificate No: IECEx CCVE 16.0008U Issue No: 0  
Date of Issue: 2016-11-03 Page 2 of 4  
Manufacturer: "ZAVOD GORELTEX" Co. Ltd.  
197229, Saint Petersburg, Olgino, 1st Konnaya Lakhta str., 1  
Russian Federation

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

## STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

## TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

[RU/CCVE/ExTR16.0007/00](#)

Quality Assessment Report:

[RU/CCVE/QAR16.0004/00](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Empty enclosures of type SHORVA... are square flameproof enclosures consisting of a cover and a housing with a threaded joint. The cover and the housing are made of aluminum-silicon alloy, the stopping screw is made of stainless steel. The enclosures of aluminum-silicon alloy are coated with powder paint.

Empty enclosures of type KKVA... are flameproof enclosures of cylindrical form consisting of a cover and a housing with a threaded flameproof joint. The cover and the housing are made of aluminum-silicon alloy, the stopping screw is made of stainless steel. The enclosures of aluminum-silicon alloy are coated with powder paint. Grounding elements are installed inside and outside the housing. The walls of the housing of the flameproof enclosures types SHORVA..., KKVA... may have threaded holes for mounting of cable glands, controls and other. The enclosures can be installed indoors and outdoors.

The Schedule of Limitations is further described in the Annex to this certificate.

**SPECIFIC CONDITIONS OF USE: NO**



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**Additional information:**

See attached Annex.

**Annex:**

[Annex to IECEX \\_CCVE\\_16.0008U\\_0.pdf](#)

**NANIO CCVE**  
**Zavod ECOMASH, VUGI Settlement**  
**Lyubertsy, Moscow region**  
**140004**  
**Russian Federation**

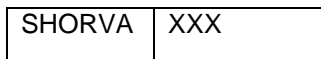


**Annex to IECEx CCVE 16.0008U**

**Issue No. 0**

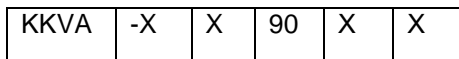
**Date: 2016-11-03**

Enclosure symbol structure:



Enclosure standard size: 121211, 151512, 171712, 232316, 272721

Enclosure type: SHORVA...



Thread typical size: 1 – ½”, M20x1.5; 2 – ¾”, M25x1.5; 3 – 1”, M32x1.5

Thread type: N (national pipe thread), G (whitworth pipe thread), M (metric thread)

Enclosure standard size: 90

Mount type: S – wall fixtures, SG – wall fixtures with 90°, without symbol – no additional fixture

Number of apertures: K – four, T – three.

Enclosure type: KKVA...

Model identification: SHORVA121211, SHORVA151512, SHORVA171712, SHORVA232316, SHORVA272721, KKVA-...90...

Ambient temperature range: from minus 60°C to +60°C

Service temperature range: from minus 60°C to +150°C

Schedule of limitations

- Enclosures are not approved for separate use (without installed components inside) in explosion hazardous areas;
  - Inside the enclosures it is prohibited to use oil filled circuit breakers and contactors;
  - The content of the Ex components enclosures equipment may be placed in any arrangement, provided that an area of at least 40% of each cross-sectional area remains free. Apertures in enclosures are specified on the flowing drawings: LGSA.121211.5.2016, LGSA.151512.5.2016, LGSA.171712.5.2016, LGSA.232316.5.2016, LGSA.272721.5.2016, LGSA.D90.1.2016.
- Separate relief areas may be aggregated provided that each area has a minimum dimension in any direction of 12.5 mm.