Chinastandards.org

ICS 13.310
CCS A 90

GA

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GA 667-2020

Anti-explosion transparent materials

防爆炸透明材料

(English Translation)

Issued on: January 19, 2020 **Implemented on: August 1, 2020**

Issued by: Ministry of Public Security

Preview: page 1 of 5 shown, 9 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/ga-667-2020

Chinastandards.org

Table of Contents

Foreword
1 Scope
2 Normative references
3 Terms and definitions
4 Classification, and code
4.1 Explosion-proof performance classification
4.2 Explosion-proof performance classification
4.3 Product code
5 Technical requirements
5.1 Appearance
5.2 Logo
5.3 Dimensions and deviations
5.4 Transmittance
5.5 Explosion-proof performance
6 Test method
6.1 Visual inspection
6.2 Mark inspection
6.3 Inspection of dimensions and deviations
6.4 Light transmittance inspection
6.5 Explosion-proof performance test
7 Inspection rules
7.1 Inspection classification
7.2 Type inspection
7.3 Factory inspection
7.4 Inspection item
7.5 Batching rules
7.6 Sampling rules
7.7 Judgment Rule
8 Packaging, transportation and storage
8.1 Packaging
8.2 Transportation and storage

Preview: page 2 of 5 shown, 9 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/ga-667-2020

Appendix A (Normative Appendix) Non-contact explosion shock wave overpressure test test method

Foreword

All technical content of this standard is mandatory.

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GA 667-2006 "Explosion-proof Composite Glass". Compared with GA 667-2006, except for editorial changes, the main technical changes are as follows.

---Modified the standard name;

---Modified the terms and definitions of anti-explosive transparent materials and penetration (see 3.1, 3.2, 3.1 and 3.2 of the 2006 edition);

---Added the terms and definitions of explosion center, explosion distance, shock wave overpressure peak, proportional distance, non-contact explosion, and contact explosion (see 3.3~3.8);

---Revised the explosion-proof performance classification, explosion-proof performance classification and product code (see Chapter 4, Chapter 4 of the 2006 edition);

---Added the logo (see 5.2);

---Increase the size and deviation (see 5.3);

---Modified the requirements of light transmittance (see 5.4, 5.2 of the 2006 edition);

---Modified the explosion-proof performance test content (see 5.5, 6.5, Appendix A, 5.3, Chapter 6, and 7.3 of the 2006 edition);

---Modified the inspection rules (see Chapter 7, Chapter 8 of the 2006 edition);

---Modified packaging, transportation and storage (see Chapter 8, Chapter 9 of the 2006 edition).

This standard was proposed by the Science and Technology Information Technology Bureau of the Ministry of Public Security.

This standard is under the jurisdiction of the Sub-Technical Committee for Physical Protection Equipment (SAC/TC100/SC1) of the National Standardization Technical Committee for Security and Alarm System.

Drafting organizations of this standard. Ministry of Public Security Security and Police Electronic Product Quality Inspection Center, Ministry of Public Security Third Research Institute, Ministry of Public Security Security Alarm System Product Quality Supervision and Inspection Center, Beijing Institute of Technology, National Civil Blasting Equipment

Preview: page 3 of 5 shown, 9 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/ga-667-2020

Quality Supervision and Inspection Center, Henan Hengxin Fengan Defense Technology Co., Ltd., Dongying Shengta Glass Co., Ltd., Shandong Shenglu Light Industry Group Co., Ltd.

Drafters of this standard. Zhang Zhijiang, Li Jian, Gu Jianwen, Qiu Rixiang, Zhong Qian, Wang Xiaohuan, Fang Jinguang, Sun Yong, Wang Bo.

The previous versions of the standard replaced by this standard are as follows.

---GA 667-2006.

Explosion-proof transparent material

1 Scope

This standard specifies the classification, and code, technical requirements, test methods, inspection rules, packaging, transportation and storage of anti-explosive transparent materials.

This standard is applicable to the production, inspection and acceptance of transparent plates such as explosion-proof composite glass that require explosion-proof performance.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 2828.1 Sampling inspection procedure by attributes Part 1: Batch inspection sampling plan retrieved by acceptance quality limit (AQL) GB/T 2829 Periodic Inspection Attribute Sampling Procedure and Table (Applicable to the inspection of process stability) GB 5137.2-2002 Automobile safety glass test method Part 2: Optical performance test GB/T 6544 corrugated cardboard GJB338A-2002 TNT Specification

3 Terms and definitions

The following terms and definitions apply to this document.

It is a board with anti-explosion ability and light transmittance to meet certain requirements.

penetrate

After the test sample is impacted by the explosion, a transparent hole or penetrating crack appears on the sample.

Heartbreak

The geometric center of the explosion source.

Preview: page 4 of 5 shown, 9 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/ga-667-2020

Chinastandards.org

Explosion distance

The distance from the core to the impacted surface of the test sample.

Shock wave overpressure peak the maximum pressure value in the positive pressure phase of the explosion air shock wave.

Proportional distance the ratio of the cube root of the explosion source mass to the explosion distance.

Preview: page 5 of 5 shown, 9 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/ga-667-2020