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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 25445-2010

Explosion suppression systems

抑制爆炸系统

(English Translation)

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Foreword

This standard is a reference to EN14373:2005 "Explosion suppression systems" (in English) to develop, the technical content is equivalent to using the standard.

Appendix A of this standard is an informative annex.

The standard proposed by China Electrical Equipment Industrial Association.

This standard by the national explosion-proof electrical equipment Standardization Technical Committee (SAC/TC9) centralized and explain.

This standard is mainly drafted by. Nanyang Explosion Electric Institute, the national explosion-proof electrical products for Quality Supervision and Inspection Center, coal scientific research General Hospital of Fushun Branch blast Electric Co., Ltd. and the like.

1 Scope

This standard specifies the explosion suppression (hereinafter referred to as "suppression burst") the basic requirements of system design and applications. At the same time standard also specifies the assessment the effect of explosion suppression systems and explosion suppression system efficiency under certain conditions explosive way. Also carried out another test equipment and explosion suppression Explosion suppression system to determine safe operating mode provides the basis for a standard. include.

--- General requirements for explosion suppression components;

- Assess the effectiveness of the explosion suppression system;
- Assess the degree of efficiency explosion suppression system;
- Explosion suppression system for assessment and improvement of design tools;
- Explosion suppression system installation instructions;
- Explosion suppression system maintenance instructions.

This standard applies to the inherent seal or seal housing explosion suppression system. Such housing ignite an explosive mixture could explode, such as. combustible dust - air mixture, a gas (vapor) - air mixtures, combustible dust - gas (vapor) - air mixture and mist.

This standard does not apply to the following materials or mixtures of these substances containing explosive.

- Unstable and easily decomposed substance;
- Explosive substances;
- Pyrotechnic material;
- Can produce pyrotechnic materials.

NOTE: Use of these materials requires expert guidance.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 15605 dust explosion relief guide (GB/T 15605-2008, NEQVDI3673-1.2002) GB/T 16425 dust cloud explosion limit concentration measuring method GB/T 16426 dust cloud maximum explosion pressure and maximum rate of pressure rise measurement method (GB/T 16426-1996, eqvISO /DIS6184-1) GB/T 2900.35 Electrotechnical terminology - Electrical equipment for explosive atmospheres (GB/T 2900.35-2008, IEC 60050-426:2008, IDT) GB 25285.1 explosive atmospheres explosion prevention and protection - Part 1. Basic Principles and Methods EN13673-1 gases and vapors maximum explosion pressure and maximum rate of pressure rise is determined - Part 1. determination of the maximum explosion pressure EN13673-2 gases and vapors maximum explosion pressure and maximum rate of pressure rise is determined - Part 2. the maximum explosion pressure L rate determined OK Part 4 EN14034-4 dust cloud explosion properties. Dust cloud to determine the limiting oxygen concentration LOC of EN14994 gases of explosion protection systems EN26184-3 explosion protection systems - Part 3. Fuel dust/air and gas/air mixture

outside/air mixture explosion means Determine the number

3 Terms and Definitions

GB 25285.1, GB/T 2900.35 established in the following terms and definitions apply to this standard.