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NATIONAL STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

GB/T 3836.30-2021

Explosive atmospheres - Part 30: Equipment and components in explosive atmospheres in underground mines

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Foreword

This Document was drafted in accordance with the rules in GB/T 1.1-2020 Directives for

Standardization - Part 1.Rules for the Structure and Drafting of Standardizing Documents.

This Document is Part 30 of GB/T 3836 Explosive Atmospheres. GB/T 3836 has published the

following parts.

--- Part 1.Equipment - General Requirements;

--- Part 2.Equipment Protection by Flameproof Enclosure "d";

--- Part 3.Equipment Protection by Increased Safety "e";

--- Part 4.Equipment Protection by Intrinsic Safety "i";

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--- Part 5.Equipment Protection by Pressurized Enclosure "p";

--- Part 6.Equipment Protection by Liquid Immersion "o";

--- Part 7.Equipment Protection by Powder Filling "q";

--- Part 8.Equipment Protection by Type of Protection "n";

--- Part 9.Equipment Protection by Encapsulation "m";

--- Part 11.Material Characteristics for Gas and Vapor Classification - Test Methods and Data;

--- Part 12.Material Characteristics for Combustible Dusts - Test Methods;

--- Part 13.Equipment Repair, Overhaul, Reclamation and Modification;

--- Part 14.Classification of Areas - Explosive Gas Atmosphere;

--- Part 15.Electrical Installations Design, Selection and Erection;

--- Part 16.Electrical Installations Inspection and Maintenance;

--- Part 17.Equipment Protection by Pressurized Room "p" and Artificially Ventilated Room "v";

--- Part 18.Intrinsically Safe Electrical Systems;

--- Part 20.Equipment with Equipment Protection Level (EPL) Ga;

--- Part 21.Application of Quality Systems for Equipment Manufacture;

--- Part 22.Protection of Equipment and Transmission System Using Optical Radiation;

--- Part 23.Group I, Category EPL Ma Equipment Intended to Remain Functional in Atmospheres Endangered by Firedamp and/or Coal Dust;

--- Part 24.Equipment Protection by Special Protection "s";

--- Part 25.Requirements for Process Sealing between Flammable Process Fluids and Electrical Systems;

--- Part 26.Electrostatic Hazards - Guidance;

--- Part 27.Electrostatic Hazards - Test;

--- Part 28.Non-Electrical Equipment for Explosive Atmospheres - Basic Method and Requirements;

--- Part 29.Non-Electrical Equipment for Explosive Atmospheres - Constructional Safety

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"c", Control of Ignition Source "b", Liquid Immersion "k";

--- Part 30.Equipment and Components in Explosive Atmospheres in Underground Mines;

--- Part 31.Equipment Dust Ignition Protection by Enclosure "t";

--- Part 32.Intrinsically Safe Systems with Electronically Controlled Spark Duration Limitation;

--- Part 33.Equipment in Adverse Service Conditions;

--- Part 34.Equipment Assemblies;

--- Part 35.Classification of Areas for Explosive Dust Atmospheres.

This Document adopts the re-drafting method in the modification and adoption of ISO/IEC 80079-38.2016 Explosive Atmospheres - Part 38.Equipment and Components in Explosive Atmospheres in Underground Mines.

This Document makes the following structural adjustments.

---Due to the deletion of the term 3.1 "Protection against Firedamp Explosions" in ISO/IEC 80079-38.2016, the sequence of other terms is adjusted;

---The sequence of appendixes is adjusted. The previous Appendix E is adjusted to Appendix A; the previous Appendix D is adjusted to Appendix B; the previous Appendix A is adjusted to Appendix C; the previous Appendix B is adjusted to Appendix D; the previous Appendix C is adjusted to Appendix E.

In comparison with ISO/IEC 80079-38.2016, the technical differences and the causes for these differences are as follows.

---In terms of Normative References, this Document makes adjustments with technical differences to adapt to the technical conditions of China. The adjustments are intensively reflected in Chapter 2 "Normative References". See the specific adjustments below.

? GB/T 3685, which modifies and adopts international standard, is used to replace ISO 340 (see 6.2);

? GB/T 3836.1, which modifies and adopts international standard, is used to replace IEC 60079-0 (see Chapter 1);

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? GB/T 3836.18, which modifies and adopts international standard, is used to replace IEC 60079-25 (see 4.4.6.3);

? GB/T 3836.28-2021, which modifies and adopts international standard, is used to replace ISO 80079-36.2016 (see Chapter 1);

? GB/T 3836.29-2021, which modifies and adopts international standard, is used to replace ISO 80079-37.2016 (see 5.3.1.4);

? GB/T 4208, which equivalently adopts international standard, is used to replace IEC 60529 (see 5.3.2);

? GB/T 5226.1, which equivalently adopts international standard, is used to replace IEC 60204-1 (see 4.4.3.1);

? GB 5226.3, which equivalently adopts international standard, is used to replace IEC 60204-11 (see 4.4.3.1);

? GB/T 8642, which modifies and adopts international standard, is used to replace ISO 14916 (see A.2);

? GB/T 9239.1, which equivalently adopts international standard, is used to replace ISO 1940-1 (see 5.3.1.6);

? GB/T 16855.1, which equivalently adopts international standard, is used to replace ISO 13849-1 (see 5.1.1);

? GB/T 18380.11, GB/T 18380.12 and GB/T 18380.13, which equivalently adopt international standard, are used to replace IEC 60332-1 (all parts) (see 6.5);

? GB 28526, which equivalently adopts international standard, is used to replace IEC 62061 (see 5.1.1);

? GB/T 31523.1, which modifies and adopts international standard, is used to replace ISO 7010 (see 7.1);

? GB/T 34560.5, which modifies and adopts international standard, is used to replace ISO 630-5 (see 5.3.1.1);

? SH/T 0785, which modifies and adopts international standard, is used to replace ISO 14935 (see 6.3);

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