

# NORME INTERNATIONALE INTERNATIONAL STANDARD

**CEI  
IEC  
79-19**

Première édition  
First edition  
1993-09

## Matériel électrique pour atmosphères explosives gazeuses

### Partie 19:

Réparation et révision du matériel utilisé en  
atmosphères explosives (autre que celui utilisé dans  
les mines ou pour la fabrication des explosifs)

## Electrical apparatus for explosive gas atmospheres

### Part 19:

Repair and overhaul for apparatus used in explosive  
atmospheres (other than mines or explosives)

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# Explosive Atmospheres Iec 60079 Part 19 Equipment Repair

**Clifford Lane**



## **Explosive Atmospheres Iec 60079 Part 19 Equipment Repair:**

*BS EN IEC 60079-19. Explosive Atmospheres* British Standards Institution, 2023      **DIN EN IEC 60079-19 (VDE 0165-20-1), Explosionsgefährdete Bereiche. Teil 19, Gerätereparatur, Überholung und Regenerierung (IEC 60079-19:2019)** , 2021      **Explosion-Proof Equipment in Hazardous Area** Arvind Kumar Singh, 2023-07-24 This book provides a comprehensive overview of hazardous areas containing explosive gases vapors and combustible dust It also discusses about the different types of protection techniques used in explosion proof electrical equipment This book further provides guidance on how to deal with electrical explosions caused by fires due to arcs and sparks caused by a failure in the design manufacture selection installation or maintenance of electrical equipment Among the topics covered in this book are overview of hazardous areas various types of protection available mechanisms for explosion pressure to build inside flameproof enclosures concept of preventing explosions in flammable and dusty environments unique features of explosion proof motors process of testing and certifying explosion proof equipment in India and abroad and mechanisms for the initiation and prevention of explosions resulting from non electric sources The book also discusses topics such as the selection installation inspection and maintenance of electrical equipment In addition this book will be useful for researchers and professionals working in the fields of electrical engineering mechanical engineering petroleum engineering mining engineering and testing laboratories that test and certify explosion proof equipment      Ship and Mobile Offshore Unit Automation Henryk Pepliński, 2019-08-23 Ship and Mobile Offshore Unit Automation A Practical Guide A Practical Guide gives engineers a much needed reference on relevant standards and codes along with practical case studies on how to use these standards on actual projects and plans Packed with the critical procedures necessary for each phase of the project the book also gives an outlook on trends of development for control and monitoring systems including usage of artificial intelligence in software development and prospects for the use of autonomous vessels Rounding out with a glossary and introductory chapter specific to the new marine engineer just starting this book delivers a source of valuable information to help offshore engineers be better prepared to safely and efficiently design today s offshore unit control systems Helps readers understand the worldwide offshore unit regulations necessary for monitoring systems and automation installation including ISO IEC IEEE IMO SOLAS AND MODU ABS DNVGL API NMA and NORSOK Presents real world examples that apply standards Provides tactics on how to procure control and monitoring systems specific to the offshore industry

**Electrical Product Compliance and Safety Engineering, Volume 2** Steli Loznen, Constantin Bolintineanu, 2021-09-30 This second volume of an Artech House bestseller presents an enhanced approach toward product compliance and safety engineering Written by experts in the field this new volume presents practical material useful for novice and advanced practitioners Safety aspects of product approvals energy management environmental concerns material science radiation hazardous location and global market access are explored Practical features related to global market access are presented

including specific documentation and local labeling requirements as well as language used for safety instructions and user manuals Compliance and safety aspects of specific applications such as information technology equipment audio video multimedia medical household alarms systems luminaires including LED lamps and lamp control industrial machinery and semiconductor manufacturing are discussed Environmental attributes including temperature atmospheric pressure relative humidity vibration shock and packaging transportation and how they affect product safety are analyzed Information about testing environmental HALT and HASS is also provided focusing on the compliance of electrical products with dedicated environmental regulation Similarities and differences between ATEX and IECEx are defined Materials including metal corrosion adhesives insulation materials and information about safety of hazardous materials are examined **GB 3836.18-2010 English-translated version** [Codeofchina.com](http://www.codeofchina.com),2011-08-01 GB 3836 18 2010 Code for sound insulation design of civil buildings English translated version

**Resolutions and Other Decisions** International Maritime Organization. Assembly,2009

**GB 3836.3-2010 English Translation of Chinese Standard** <https://www.codeofchina.com>, This part of GB 3836 specifies the requirements for the design construction testing and marking of electrical apparatus with type of protection increased safety e intended for use in explosive gas atmospheres This standard applies to electrical apparatus where the rated voltage does not exceed 11 kV r m s a c or d c Additional measures are applied to ensure that the apparatus does not produce arcs sparks or excessive temperatures in normal operation or under specified abnormal conditions This standard supplements and modifies the general requirements of GB 3836 1 2010 Where a requirement of this standard conflicts with a requirement of GB 3836 1 2010 the requirement of this standard takes precedence **Código MODU 2009** Organización Marítima Internacional, Organización Marítima Internacional. Asamblea,1985

**GB 3836.1-2010 English Translation of Chinese Standard** <https://www.codeofchina.com>, This part of GB 3836 specifies the general requirements for construction testing and marking of electrical equipment and Ex components intended for use in explosive atmospheres Unless modified by one of the standards supplementing this standard electrical equipment complying with this standard is intended for use in hazardous areas in which explosive atmospheres exist under normal atmospheric conditions of Temperature 20 to 60 Pressure 80kPa to 110kPa Air with normal oxygen content Volume ratio 21% The application of electrical equipment in atmospheric conditions outside this range requires special consideration and may require additional assessment and testing Note 1 Although the normal atmospheric conditions above give a temperature range for the atmosphere of 20 to 60 the normal ambient temperature range for the equipment is 20 to 40 unless otherwise specified and marked see 5 1 1 Note 2 In designing equipment for operation in explosive atmospheres under conditions other than the atmospheric conditions given above this standard may be used for guidance However additional testing related specifically to the intended conditions of use is recommended This is particularly important when the types of protection flameproof enclosure d GB 3836 2 2010 and intrinsic safety i GB 3836 4 2010 or GB 12476 4 2010 are applied Note 3 Requirements

given in this standard result from an ignition hazard assessment made on electrical equipment The ignition sources taken into account are those found associated with this type of equipment such as hot surfaces mechanically generated sparks thermite reactions electrical arcing and static electric discharge in normal industrial environments Note 4 It is acknowledged that with developments in technology it may be possible to achieve the objectives of the GB 3836 series of standards in respect of explosion prevention by methods that are not yet fully defined Where a manufacturer wishes to take advantage of such developments this International Standard as well as other standards in the GB 3836 series may be applied in part It is intended that the manufacturer prepare documentation that clearly defines how the GB 3836 series of standards has been applied together with a full explanation of the additional techniques employed Under such circumstances the designation Ex s has been reserved to indicate a type of protection that is not defined by the GB 3836 series of standards Note 5 Where an explosive gas atmosphere and a combustible dust atmosphere are or may be present at the same time the simultaneous presence of both should be considered and may require additional protective measures This standard does not specify requirements for safety other than those directly related to the explosion risk Ignition sources like adiabatic compression shock waves exothermic chemical reaction self ignition of dust naked flames and hot gases liquids are not addressed by this part Note 6 Such equipment should be subjected to a hazard analysis that identifies and lists all of the potential sources of ignition by the electrical equipment and the measures to be applied to prevent them becoming effective This standard is supplemented or modified by the following standards concerning specific types of protection GB 3836 2 2010 Gas Flameproof Enclosures d GB 3836 3 2010 Gas Increased Safety e GB 3836 4 2010 Gas Intrinsic Safety i GB 3836 5 2004 Gas Pressurized Enclosures p GB 3836 6 2004 Gas Oil Immersion o GB 3836 7 2004 Gas Powder Filling q GB 3836 8 2003 Gas Type of Protection n GB 3836 9 2006 Gas Encapsulation m GB 12476 7 2010 Dust Pressurization pD GB 12476 4 2010 Dust Intrinsic Safety iD GB 12476 6 2010 Dust Encapsulation mD IEC 61241 1 Dust Protection by Enclosures tD This standard is supplemented or modified by the following equipment standards GB 3836 18 2010 Explosive Atmospheres Part 18 Intrinsically Safe System GB 3836 20 2010 Explosive Atmospheres Part 20 Equipment with Equipment Protection Level EPL Ga GB 7957 2003 General Requirements for Safety of Cap Lamp GB 19518 1 2004 Electrical Apparatus for Explosive Gas Atmospheres Electrical Resistance Trace Heating Part 1 General and Testing Requirements IEC 60079 28 Explosive Atmospheres Part 28 Protection of Equipment and Transmission Systems Using Optical Radiation This part of GB 3836 together with other parts in the GB 3836 series and the additional standards mentioned above are not applicable to the construction of electro medical apparatus shot firing exploders test devices for exploders and shot firing circuits Note 7 Flameproof enclosures and Flameproof type in this part of GB 3836 are synonym *GB 3836.2-2010 English Translation of Chinese Standard* <https://www.codeofchina.com>, This part of GB 3836 contains specific requirements for the construction and testing of electrical equipment with the type of protection flameproof enclosure d intended for use in explosive gas

atmospheres This part supplements and modifies the general requirements of GB 3836 1 2010 Where a requirement of this part conflicts with a requirement of GB 3836 1 2010 the requirement of this part will take precedence **GB 3836.4-2010**

**English Translation of Chinese Standard** <https://www.codeofchina.com>, This part of GB 3836 specifies the terms construction testing and marking requirements of intrinsically safe apparatus intended for use in an explosive gas atmosphere and for associated apparatus which is intended for connection to intrinsically safe circuits which enter such atmospheres This type of protection is applicable to electrical apparatus in which the electrical circuits themselves are incapable of causing an explosion in the surrounding explosive atmospheres This part is also applicable to electrical apparatus or parts of electrical apparatus located outside the explosive gas atmosphere or protected by another type of protection listed in GB 3836 1 2010 where the intrinsic safety of the electrical circuits in the explosive gas atmosphere may depend upon the design and construction of such electrical apparatus or parts of such electrical apparatus The electrical circuits exposed to the explosive gas atmosphere are evaluated for use in such an atmosphere by applying this part The requirements for intrinsically safe systems are provided in GB 3836 18 The requirements for intrinsically safe concepts for fieldbus are provided in GB 3836 19 This part supplements and modifies the general requirements of GB 3836 1 2010 except as indicated in Table 1 Where a requirement of this standard conflicts with a requirement of GB 3836 1 2010 the requirements of this part shall take precedence If associated apparatus is placed in the explosive gas atmosphere it must be protected by an appropriate type of protection listed in GB 3836 1 2010 and then the requirements of that method of protection together with the relevant parts of GB 3836 1 2010 also apply to the associated apparatus Maintenance Management and Engineering

Fahri YILMAZ, Preface We live in an era where technology develops at a dizzying pace and competition intensifies daily For industrial facilities to survive not only production but also its continuity and reliability are as crucial as product quality At this point maintenance and repair are no longer a mere cost item but a strategic factor directly impacting profitability My primary goal in writing this book is to provide a comprehensive reference source for those working in this field by covering maintenance and repair management and engineering not only from a practical perspective but also from a theoretical perspective Throughout the book I have thoroughly explored both classical maintenance techniques and modern approaches evolving with digitalization This work brings together a wide range of topics from field problems to case studies from predictive maintenance technologies to occupational safety practices I have prepared this book to be useful to a wide range of readers from engineers and technicians working in production facilities to academics and students In this era of increasing thirst for technical knowledge I hope this book will contribute to the development of a maintenance culture

Sincerely Fahri YILMAZ Maintenance and Repair Manager

Chapter Titles

- 1 Introduction and Basic Concepts
- 2 Maintenance Management Systems
- 3 Types and Methods of Technical Maintenance
- 4 Predictive Maintenance Technologies
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Facilities 7 ROUTINE MAINTENANCE PLANNING AND MANAGEMENT 8 RISK MANAGEMENT AND CRISIS PREPARATION IN MAINTENANCE 9 THE RELATIONSHIP BETWEEN ENERGY EFFICIENCY AND MAINTENANCE 10 MAINTENANCE ENGINEERING AND SUSTAINABILITY STRATEGIES 11 Human Resources Management Training and Team Culture in Maintenance and Repair 12 Occupational Health and Safety in Maintenance and Repair Practices Lockout Tagout LOTO System 13 Maintenance Budget Planning and Cost Management 14 5S Cleanliness and Order Practices in Maintenance and Repair Workshops 15 Waste Management and the Relationship Between Maintenance and Repair in Industrial Facilities 16 Control of Major Industrial Accidents and Risk Reduction within the Scope of BEKRA 17 Comprehensive Maintenance Repair and Protection Methods for Industrial Assets 18 Failure Sources and Technical Specifications 19 Welding Practices and Control Techniques in Maintenance and Repair 20 Explosion Proof Environments and Equipment Maintenance Repair Processes 21 Comprehensive Maintenance and Repair Engineering Reference Guide

Resoluciones y Otras Decisiones de la Vigésima Sexta Asamblea , **Federal Register** ,2013-06 *Explosive Atmospheres* Malaysia. Jabatan Standard,2006 **Handbook of Pumps and Pumping** Brian Nesbitt,2006-10-18 Written by an experienced engineer this book contains practical information on all aspects of pumps including classifications materials seals installation commissioning and maintenance In addition you will find essential information on units manufacturers and suppliers worldwide providing a unique reference for your desk R D lab maintenance shop or library Includes maintenance techniques helping you get the optimal performance out of your pump and reducing maintenance costs Will help you to understand seals couplings and ancillary equipment ensuring systems are set up properly to save time and money Provides useful contacts for manufacturers and suppliers who specialise in pumps pumping and ancillary equipment

*Selected Papers from the 2018 IEEE International Workshop on Metrology for the Sea* Attilio Di Nisio,Francesco Picariello,2020-11-13 This Special Issue is devoted to recent developments in instrumentation and measurement techniques applied to the marine field The sea is the medium that has allowed people to travel from one continent to another using vessels even today despite the use of aircraft It has also been acting as a great reservoir and source of food for all living beings However for many generations it served as a landfill for depositing conventional and nuclear wastes especially in its deep seabeds and we are assisting in a race to exploit minerals and resources different from foods encompassed in it Its health is a great challenge for the survival of all humanity since it is one of the most important environmental components targeted by global warming As everyone may know measuring is a step that generates substantial knowledge about a phenomenon or an asset which is the basis for proposing correct solutions and making proper decisions However measurements in the sea environment pose unique difficulties and opportunities which is made clear from the research results presented in this Special Issue **Code of Federal Regulations** ,2009 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries *Code of Federal*

*Regulations* United States. Department of Agriculture, 2012 Special edition of the Federal register containing a codification of documents of general applicability and future effect as of April 1 with ancillaries



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