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**EXPLOSIVE ATMOSPHERES - EXPLOSION  
PREVENTION AND PROTECTION -  
PART 1: BASIC CONCEPTS AND  
METHODOLOGY**

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English Version

## Explosive atmospheres - Explosion prevention and protection - Part 1: Basic concepts and methodology

Atmosphères explosives - Prévention de l'explosion et  
protection contre l'explosion - Partie 1: Notions  
fondamentales et méthodologie

Explosionsfähige Atmosphären - Explosionsschutz - Teil 1:  
Grundlagen und Methodik

This European Standard was approved by CEN on 21 October 2007.

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## **Foreword**

This document (EN 1127-1:2007) has been prepared by Technical Committee CEN/TC 305 “Potentially explosive atmospheres – Explosion prevention and protection”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2008, and conflicting national standards shall be withdrawn at the latest by May 2008.

This document will supersede EN 1127-1:1997.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directives.

For relationship with EU Directives, see informative Annex ZA, ZB and ZC, which are an integral part of this document.

The main changes with respect to the previous edition are technical changes in the definitions (see Clause 3). Furthermore the document has been editorially revised, references have been updated and a bibliography has been added.

This standard is a general guideline for explosion prevention and protection by design and construction of equipment, protective systems and components.

Detailed information on specific equipment, protective systems and components is comprised in appropriate individual standards. The design and construction of explosion prevention and protection measures need safety relevant data of flammable substances and explosive atmospheres. Detailed information is available from appropriate standards.

EN 1127-1 *Explosive atmospheres — Explosion prevention and protection* consists of the following parts:

- *Part 1: Basic concepts and methodology;*
- *Part 2: Basic concepts and methodology for mining.*

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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