SLOVENSKI STANDARD
oSIST prEN 15198:2026

01-december-2026

Metodologija za oceno tveganja vžiga neelektrične opreme in komponent, namenjenih za uporabo v potencialno eksplozivnih atmosferah

Methodology for the ignition risk assessment of non-electrical equipment and components for intended use in potentially explosive atmospheres

Methodik zur Risikobewertung für nicht-elektrische Geräte und Komponenten zur Verwendung in explosionsgefährdeten Bereichen

Sample Document

Méthodes pour l'évaluation du risque d'inflammation des appareils et des composants non électriques destinés à être utilisés en atmosphères explosibles

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Ta slovenski standard je istoveten z: **prEN 15198**

ICS:

13.230	Varstvo pred eksplozijo	Explosion protection

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

DRAFT
prEN 15198

December 2026

ICS

Will supersede EN 15198:2007

English Version

Methodology for the ignition risk assessment of non-electrical equipment and components for intended use in potentially explosive atmospheres

Méthodes pour l'évaluation du risque d'inflammation des appareils et des composants non électriques destinés à être utilisés en atmosphères explosibles

Methodik zur Risikobewertung für nicht-elektrische Geräte und Komponenten zur Verwendung in explosionsgefährdeten Bereichen

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 305.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Sample Document

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European foreword

This document (prEN 15198:2026) has been prepared by Technical Committee CENTC 305 “Potentially explosive atmospheres — Explosion prevention and protection”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 15198:2007.

prEN 15198:2026 includes the following significant technical changes with respect to EN 15198:2007:

a) Updating of the references

b) Addition of a note in 5.2

c) Addition of examples and references in 5.5

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

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Introduction

The aim of this document is to describe general principles for a consistent systematic procedure for ignition risk assessment of non-electrical equipment and components for intended use in potentially explosive atmosphere.

Annex A contains examples for ignition risk assessment.

It is in both the manufacturer's and user's interest to establish a common methodology for achieving safety, reliability and efficacy in functioning and operating equipment and components with respect to the ignition hazards. Thus, ignition risk assessment is a tool which provides the essential link between manufacturers and users, but only aspects that directly address manufacturers are incorporated.

Integrated explosion safety is conceived to prevent the formation of explosive atmospheres as well as sources of ignition and, should an explosion nevertheless occur, to halt it immediately and / or to limit its effects. In this connection, the manufacturer takes measures with respect to the potential ignition sources. In addition, equipment and component are designed and constructed after due analysis of possible operating faults in order as far as possible to preclude dangerous situations taking the misuse which can reasonably be anticipated into account. Therefore, it is essential to conduct an ignition risk assessment process.

For the equipment and components, the identification of the potential ignition sources is the most relevant part of the ignition risk assessment.

The final objective of this document is designing and manufacturing equipment or components intended for use in potentially explosive atmospheres. For this purpose, equipment or components if necessary should be designed with adequate preventive and/or protective measures.

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1 Scope

This document specifies basic methodology used in achieving safety of equipment for intended use in potentially explosive atmospheres.

The provisions specified in this document are intended for standard makers and designers.

This document specifies the procedure and information required to allow ignition risk assessment to be carried out for the design of equipment or component.

This document provides advice for a decision to be made for the categorization of equipment but does not provide means to prove the conformity of equipment categories.

In this procedure the following information is taken into account:

a) possible occurrence of an explosive atmosphere inside the equipment or component or penetrating the equipment or component from the outside (in normal operation or during malfunctions) and the amount of explosive atmosphere involved leading to possible explosion impact inside of the equipment or component;

b) equipment or components surrounded by an explosive atmosphere (in normal operation or during malfunctions);

c) equipment or components wholly or partly surrounded by an explosive atmosphere considering also any explosive atmosphere in connection (in normal operation or during malfunctions);

d) presence and likelihood (effectiveness) of ignition sources.

Sample Document

This document specifies neither specific methods of analysis associated with ignition risk assessment, nor specific requirements for a category of equipment. It describes the methodology of ignition risk assessment.

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This document does not apply to equipment with a potentially explosive atmosphere inside under operating conditions, and without interfaces to an external potentially explosive atmosphere.

This document is applicable to all categories of equipment referred to in EN ISO 80079-36:2016.

This ignition risk assessment procedure does not preclude the conditions prevailing in an installation where the equipment or component is put into operation by a user.

While this document does not provide direct requirement related to category of equipment, the methodology specified in this document is applicable to all category of equipment and complement requirements specified in relevant standards, such as EN 1127-1 and EN ISO 80079-37.

NOTE Functional safety assessment of protective systems is covered by EN 15233.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

FprEN 1127-1:2026, *Explosive atmospheres — Explosion prevention and protection — Part 1: Basic concepts and methodology*

prEN 1127-2:2026, *Explosive atmospheres — Explosion prevention and protection — Part 2: Basic concepts and methodology for mining*

EN 13237:2024, *Potentially explosive atmospheres — Terms and definitions for equipment and protective systems intended for use in potentially explosive atmospheres*

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