

**Protection of metallic materials against corrosion - Corrosion likelihood in soil - Part 2: Low alloyed and non alloyed ferrous materials**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 12501-2:2003 sisaldab Euroopa standardi EN 12501-2:2003 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 16.05.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 12501-2:2003 consists of the English text of the European standard EN 12501-2:2003.</p> <p>This document is endorsed on 16.05.2003 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b></p> <p>This part of this European Standard deals with the assessment of the corrosion load in soil for low-alloyed and nonalloyed ferrous materials in direct contact with soil. Corrosion protection systems and their performance are not covered by this standard but by specific products standards</p>	<p><b>Scope:</b></p> <p>This part of this European Standard deals with the assessment of the corrosion load in soil for low-alloyed and nonalloyed ferrous materials in direct contact with soil. Corrosion protection systems and their performance are not covered by this standard but by specific products standards</p>
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**ICS 77.060**

**Võtmesõnad:** electric conduits, iron alloys, metallic materials, metals, pipelines, protective coatings, reinforcement, sheet pilings, soil testing, specification (approval), specifications, steels, storetanks, structures, testing, trunking, unalloyed

ICS 77.060

English version

**Protection of metallic materials against corrosion - Corrosion  
likelihood in soil - Part 2: Low alloyed and non alloyed ferrous  
materials**

Protection des matériaux métalliques contre la corrosion -  
Risque de corrosion dans les sols - Partie 2: Matériaux  
ferreux peu ou non alliés

Korrosionsschutz metallischer Werkstoffe -  
Korrosionswahrscheinlichkeit in Böden - Teil 2: Niedrig- und  
unlegierte Eisenwerkstoffe

This European Standard was approved by CEN on 21 February 2003.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

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## Foreword

This document (EN 12501-2:2003) has been prepared by Technical Committee CEN/TC 262 "Metallic and other inorganic coatings", the secretariat of which is held by BSI.

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 October 2003, and conflicting national standards shall be withdrawn at the latest by October 2003.

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

## Introduction

This European Standard should be used in conjunction with EN 12501-1, *Protection of metallic materials against corrosion — Corrosion likelihood in soil — Part 1: General*, which describes general principles of the assessment of the corrosion load.

The method of assessing the corrosion load in the case of a new structure to be installed takes into account the adverse parameters of the soil and environment with regard to corrosion. They have been chosen to avoid underestimation of the risks of corrosion damage. The assessment is performed considering a bare structure in direct contact with the soil without taking into account any protective system that will be present in service.

The complexity of corrosion in soil demands that the measurements and their interpretation are carried out by experienced personnel. The described method should be adapted in relation to the expected service life of the structure and to possible future changes of its environment.

## 1 Scope

This part of this European Standard deals with the assessment of the corrosion load in soil for low-alloyed and non-alloyed ferrous materials in direct contact with soil. Corrosion protection systems and their performance are not covered by this standard but by specific products standards.

This part of this European Standard deals with the case of new structures to be buried and gives information for existing structures.

## 2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 12501-1:2003, *Protection of metallic materials against corrosion — Corrosion likelihood in soil — Part 1: General*.

## 3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 12501-1:2003 apply.

## 4 Assessment of the corrosion load in soil for a new structure to be buried

### 4.1 Method

The method to be applied is based on:

- general concepts and factors influencing the corrosion load given in EN 12501-1;
- criteria defined in the present standard.