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General principles of cathodic protection in seawater

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Obsahuje: EN 12473:2014

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EUROPEAN STANDARD
NORME EUROPÉENNE
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EN 12473

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ICS 47.020.01; 77.060

Supersedes EN 12473:2000

English Version

General principles of cathodic protection in seawater

Principes généraux de la protection cathodique en eau de mer

Allgemeine Grundsätze des kathodischen Korrosionsschutzes in Meerwasser

This European Standard was approved by CEN on 16 November 2013.

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COMITÉ EUROPÉEN DE NORMALISATION
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Contents

Page

Foreword

This document (EN 12473:2014) has been prepared by Technical Committee CEN/TC 219 “Cathodic protection”, 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of an identical text or by endorsement, at the latest by August 2014, and conflicting national standards shall be withdrawn at the latest by August 2014.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 12473:2000.

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1 Scope

This European Standard covers the general principles of cathodic protection when applied in seawater, brackish waters and marine mud. It is intended to be an introduction, to provide a link between the theoretical aspects and the practical applications, and to constitute a support to the other European Standards devoted to cathodic protection of steel structures in seawater.

This European Standard specifies the criteria required for cathodic protection. It provides recommendations and information on reference electrodes, design considerations and prevention of the secondary effects of cathodic protection.

The practical applications of cathodic protection in seawater are covered by the following standards:

— EN 12495, *Cathodic protection for fixed steel offshore structures*;

— EN ISO 13174, *Cathodic protection of harbour installations (ISO 13174);*

— EN 12496, *Galvanic anodes for cathodic protection in seawater and saline mud*;

— EN 13173, *Cathodic protection for steel offshore floating structures*;

— EN 16222, *Cathodic protection of ship hulls*;

— EN 12474, *Cathodic protection of submarine pipelines*;

— ISO 15589-2, *Petroleum, petrochemical and natural gas industries — Cathodic protection of pipeline transportation systems — Part 2: Offshore pipelines*.

For cathodic protection of steel reinforced concrete whether exposed to seawater or to the atmosphere, EN ISO 12696 applies.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 50162, *Protection against corrosion by stray current from direct current systems*

EN ISO 8044, *Corrosion of metals and alloys — Basic terms and definitions (ISO 8044)*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN