Ships and marine technology - Fire resistance of hose assemblies - Test methods

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EESTI STANDARDI EESSÕNA **NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN ISO 15540:2003 sisaldab Euroopa standardi EN ISO 15540:2001 ingliskeelset teksti. Käesolev dokument on jõustatud 19.03.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN ISO 15540:2003 consists of the English text of the European standard EN ISO 15540:2001. This document is endorsed on 19.03.2003 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.

Käsitlusala: This standard specifies a test procedure for determining the fire resistance of hose assemblies with the nominal diameters of at least 100 mm. It serves for proving whether after the period of fire effect on the test bench specified in ISO 15541, hose assemblies continue to be tight, even when subjected to proof pressure.	**Scope:** This standard specifies a test procedure for determining the fire resistance of hose assemblies with the nominal diameters of at least 100 mm. It serves for proving whether after the period of fire effect on the test bench specified in ISO 15541, hose assemblies continue to be tight, even when subjected to proof pressure.

ICS 13.220.40, 47.020.30

Võtmesõnad: determination, fire resistance, fire tests, hoses, piping, shipbuilding, tests

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 15540

July 2001

ICS 47.020.30; 83.140.40

English version

Ships and marine technology

Fire resistance of hose assemblies – Test methods
(ISO 15540 : 1999)

Navires et technologie maritime – Résistance au feu des tuyauteries – Méthodes d'essai (ISO 15540 : 1999)

Schiffe und Meerestechnik – Feuerwiderstand von Schlauchleitungen – Prüfmethoden (ISO 15540 : 1999)

This European Standard was approved by CEN on 2001-06-09.

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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

The European Standards exist 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.

CEN members are the national standards bodies of Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Ref. No. EN ISO 15540 : 2001 E

Foreword

International Standard

ISO 15540 : 1999 Ships and marine technology – Fire resistance of hose assemblies – Test methods,

which was prepared by ISO/TC 8 'Ships and marine technology' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 300 'Ships and marine technology', the Secretariat of which is held by DIN, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by January 2002 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 15540 : 1999 was approved by CEN as a European Standard without any modification.

Introduction

The main objective of the test described in this International Standard is to determine whether and for how long a hose assembly can be exposed to fire, without becoming inoperable, e.g. without becoming untight when subjected to the envisaged working pressure. Despite the fact that the attacking fire is simulated so as to correspond to a fire occurring in practice, it cannot be assumed that the duration of resistance to fire as recorded during the test will also occur in the event of an actual fire, as the conditions of installation, which essentially affect the duration of resistance to fire, may vary from case to case.

When carried out using the test bench specified in ISO 15541, the test procedure according to this International Standard is intended to lead to results capable of being reproduced.

A specimen test certificate is specified in normative annex A.

1 Scope

This International Standard specifies a test procedure for determining the fire resistance of hose assemblies with nominal diameters of at least 100 mm.

It serves for proving whether, after the period of fire effect on the test bench specified in ISO 15541, hose assemblies continue to be tight, even when subjected to proof pressure.

Only water is permitted as a test medium. With a view to ensuring maximum safety for both the operating personnel and the test bed in the event of damage to the hose during the test, the use of combustible test media is excluded.

2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 15541:1999, *Ships and marine technology — Fire resistance of hose assemblies — Requirements for the test bench.*

3 Designation

The designation of the test for determining the fire resistance is composed of the elements quoted in the example below: