
**Ships and marine technology —
Fire resistance of non-metallic
hose assemblies and non-metallic
compensators — Requirements for the
test bench**

*Navires et technologie maritime — Résistance au feu des flexibles et
des compensateurs non métalliques — Exigences pour le banc d'essai*

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 8, *Ships and marine technology*, Subcommittee SC 3, *Piping and machinery*.

This second edition cancels and replaces the first edition (ISO 15541:1999), which has been technically revised.

The most significant change in this second edition is the inclusion of non-metallic compensators to the fire test procedures outlined in this document. The first edition of this document applied primarily to non-metallic hose assemblies. Because the compensators are used in common piping systems and may have similar materials to hose assemblies, the applicability of the test procedures was expanded to include compensators.

Introduction

The main objective of the test using the test bench described in this document is to determine whether and for a safety period a non-metallic hose assembly or non-metallic compensator can be exposed to fire, without becoming inoperable, 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 that test will also occur in the event of an actual fire, as the conditions of installation, which essentially affect to the duration of resistance to fire, may vary from case to case.

Tests carried out using the test bench specified in this document are intended to lead to results capable of being reproduced.

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