

Ships and marine technology - Fire resistance of metallic pipe components with resilient and elastomeric seals - Requirements imposed on the test bench (ISO 1922:2005, IDT)

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Als Nederlandse norm is aanvaard:

- ISO 19922:2005, IDT

Normcommissie 345 040 "Schepen en maritieme techniek"

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Preview

ISO 19922

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**Ships and marine technology — Fire  
resistance of metallic pipe components  
with resilient and elastomeric seals —  
Requirements imposed on the test bench**

*Navires et technologie maritime — Résistance au feu des composants  
de tuyaux métalliques avec joints élastiques ou élastomères —  
Exigences imposées au banc d'essai*



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Orbweaver  
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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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ISO 19922 was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*, Subcommittee SC 3, *Piping and machinery*.

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## Introduction

This International Standard does not apply to components for use in piping systems made of plastic. Such components may be tested in accordance with IMO Resolution A.753 (18), *Guidelines for the application of plastic pipes on ships*.

Tests with reproducible results are possible with the test bench specified in this International Standard for the determination of fire resistance of metallic pipe components containing a resilient or elastomeric seal. As a consequence of the connecting arrangement of the test pieces, it is possible not only to test the fire resistance of the pipeline component's systems but also the connection between the pipeline and pipeline component, which may be critical. The requirement for a burner that covers a wide area and generates flames that envelop the pipeline component under test was intended to simulate a type of flame found in practice.

The limited working pressure of 1 MPa (10 bar) and the requirement for a non-flammable test medium (water) were implemented in order to ensure the safety of operating personnel as well as to protect the test bench in case damage occurs at the test piece during the test.

In case of a request for a flame test under different test conditions, e.g. flame temperature, working pressure or duration of flame application, the test is carried out in accordance with this International Standard and in accordance with ISO 19921, but under the specific conditions requested.

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