

Second edition  
2012-11-15

**AMENDMENT 2**  
2015-11-15

---

---

**Small craft — Permanently installed  
petrol and diesel fuel tanks**

**AMENDMENT 2**

*Petits navires — Réservoirs à carburant à essence et diesel  
installés à demeure*

*AMENDEMENT 2*

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[ISO 21487:2012/Amd 2:2015](https://standards.iteh.ai/catalog/standards/sist/2fdeac09-3f70-4283-882a-f24be5fce003/iso-21487-2012-amd-2-2015)

<https://standards.iteh.ai/catalog/standards/sist/2fdeac09-3f70-4283-882a-f24be5fce003/iso-21487-2012-amd-2-2015>



Reference number  
ISO 21487:2012/Amd.2:2015(E)

© ISO 2015

## iTeh STANDARD PREVIEW (standards.iteh.ai)

[ISO 21487:2012/Amd 2:2015](https://standards.iteh.ai/catalog/standards/sist/2fdeac09-3f70-4283-882a-f24be5fce003/iso-21487-2012-amd-2-2015)  
<https://standards.iteh.ai/catalog/standards/sist/2fdeac09-3f70-4283-882a-f24be5fce003/iso-21487-2012-amd-2-2015>



### **COPYRIGHT PROTECTED DOCUMENT**

© ISO 2015, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Ch. de Blandonnet 8 • CP 401  
CH-1214 Vernier, Geneva, Switzerland  
Tel. +41 22 749 01 11  
Fax +41 22 749 09 47  
copyright@iso.org  
www.iso.org

## 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](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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 WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#).

The committee responsible for this document is ISO/TC 188, *Small craft, SC 2, Engines and propulsion systems*.

ISO 21487:2012/Amd 2:2015  
<https://standards.iteh.ai/catalog/standards/sist/2fdeac09-3f70-4283-882a-f24be5fce003/iso-21487-2012-amd-2-2015>

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[ISO 21487:2012/Amd 2:2015](https://standards.iteh.ai/catalog/standards/sist/2fdeac09-3f70-4283-882a-f24be5fce003/iso-21487-2012-amd-2-2015)

<https://standards.iteh.ai/catalog/standards/sist/2fdeac09-3f70-4283-882a-f24be5fce003/iso-21487-2012-amd-2-2015>

# Small craft — Permanently installed petrol and diesel fuel tanks

## AMENDMENT 2

Pages 4(end) and 5:

With the purpose of improvement of test sequence/understanding and allowing air to be used for leakage tests, replace Clause 7.2 with:

### 7.2 Hydraulic pressure test

**WARNING — Do not to exceed the maximum static test pressure. Do not use solutions containing ammonia for testing.**

#### 7.2.1 Hydraulic pressure/strength type test

A tank representative of the tank series type, with all its accessories, shall be pressure type tested.

Prior to the test, non-metal tanks shall be filled with test liquid C in accordance with ISO 1817 or the fuel for which the tank is fabricated and stored for at least 28 days at an ambient temperature of  $(21 \pm 2/0)^\circ\text{C}$ . The hydraulic pressure test shall be performed immediately after emptying the test liquid out of the tank.

The pressure shall be gradually increased to the greater of:

- 20 kPa; or
- 1,5 times the highest hydrostatic pressure to which the tank can be subjected in service (maximum fill-up height above tank top).

This pressure shall be maintained for:

- 1 min for metal tanks;
- 60 min for thermoplastic and fibre reinforced plastic (FRP) tanks with inner coatings having a density  $\geq 935 \text{ kg/m}^3$ ; and
- 5 h for thermoplastic and fibre reinforced plastic (FRP) tanks with inner coatings having a density  $< 935 \text{ kg/m}^3$ .

During this time, the tank shell shall not crack or leak; however, it may be permanently deformed.

#### 7.2.2 Leakage test

Each fuel tank identical to a type tested tank shall be internally leakage tested with a test pressure of 20 kPa. Air pressure may be used as an alternative to hydraulic pressure for this test.

The test pressure shall be applied for 5 min without pressure drop or rise. After the test, the fuel tank shall not show any leakage when using a leak detection method other than the pressure-drop method.

**WARNING — If air is used for this test care should be taken not to exceed a test pressure of 20 kPa.**

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[ISO 21487:2012/Amd 2:2015](https://standards.iteh.ai/catalog/standards/sist/2fdeac09-3f70-4283-882a-f24be5fce003/iso-21487-2012-amd-2-2015)  
<https://standards.iteh.ai/catalog/standards/sist/2fdeac09-3f70-4283-882a-f24be5fce003/iso-21487-2012-amd-2-2015>