



**International
Standard**

ISO 5872

**Oil and gas industries including
lower carbon energy — Pipeline
transportation systems —
Vocabulary**

**First edition
2025-08**

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

ISO 5872:2025

<https://standards.itih.ai/catalog/standards/iso/8d3f2d71-7c7e-4b1c-9c2-adbb-c6d093d7569d/iso-5872-2025>

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

ISO 5872:2025

<https://standards.iteh.ai/catalog/standards/iso/8d3f2d71-7c7e-4bc2-adbb-c6d093d7569d/iso-5872-2025>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2025

All rights reserved. Unless otherwise specified, or required in the context of its implementation, 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
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms related to general concepts	1
4 Terms related to materials and equipment	3
4.1 Pipe materials	3
4.2 Equipment	5
5 Terms related to design, construction and testing	9
5.1 Design of pipeline system	9
5.2 Pipeline installation	12
5.3 Welding and Non-destructive testing	14
5.4 Pre-commissioning and commissioning	17
6 Terms related to operation and maintenance	18
6.1 Operation of pipeline and station	18
6.2 Pipeline maintenance	20
6.3 Repair and emergency response	24
6.4 Life extension and abandonment	25
7 Terms related to corrosion control	26
7.1 General	26
7.2 Coating	27
7.3 Cathodic protection	29
7.4 Stray current	32
Bibliography	34

ISO 5872:2025

<https://standards.iteh.ai/catalog/standards/iso/8d3f2d71-7c7e-4bc2-adbb-c6d093d7569d/iso-5872-2025>

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 document 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).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

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

For an explanation of the voluntary nature of standards, 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 67, *Oil and gas industries including lower carbon energy*, Subcommittee SC 2, *Pipeline transportation systems*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

ISO 5872:2025

<https://standards.iteh.ai/catalog/standards/iso/8d3f2d71-7c7e-4bc2-adbb-c6d093d7569d/iso-5872-2025>

Introduction

This document provides the basis for common understanding for all future ISO standards for pipeline transportation systems and a comprehensive list of terms and their definitions for pipeline transportation systems in order to facilitate communication among:

- experts involved in the development of ISO standards for pipeline transportation systems;
- professionals involved in design, construction, operation, maintenance and abandonment of pipeline transportation systems.

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

[ISO 5872:2025](https://standards.itih.ai/catalog/standards/iso/8d3f2d71-7c7e-4bc2-adbb-c6d093d7569d/iso-5872-2025)

<https://standards.itih.ai/catalog/standards/iso/8d3f2d71-7c7e-4bc2-adbb-c6d093d7569d/iso-5872-2025>

