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Inland navigation vessels - Methanol bunkering

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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Methanol

This European Standard was approved by CEN on 8 September 2025.

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EN 18071:2025 (E)

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European foreword

This document (EN 18071:2025) has been prepared by Technical Committee CEN/TC 15 “Inland navigation vessels”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2026, and conflicting national standards shall be withdrawn at the latest by May 2026.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes CWA 17540:2020.

This document has been prepared under a standardization request M/581 addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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EN 18071:2025 (E)**Introduction**

Methanol also known as methyl alcohol is a polar covalent hydrocarbon fuel that can be made from non-fossil sources and is very clean burning when compared to conventional marine fuels. Therefore methanol is increasingly being used as sustainable fuel for vessels for environmental reasons. Its usage is expected to expand significantly in the future. Therefore, there is a need to standardize the bunkering requirements for inland navigation vessels to a reasonable degree, so that vessel operators have the tools to select vessel fuel providers that meet set safety and fuel quality standards, in order to conduct methanol bunkering operations safely.

This European Standard specifies safety requirements for methanol bunkering within the meaning of European Parliament and Council Directive (EU) 2016/1629 of 14 September 2016 laying down technical requirements for inland waterway vessels.

This document on the bunkering of methanol is based on research outcome of the Workshop CEN/WS 106 'Specification for bunkering of methanol' in which was developed the CWA 17540 'Ships and marine technology – Specification for bunkering of methanol fuelled vessels'. Next to this as a reference is used the existing standard EN ISO 20519 'Ships and marine technology – Specification for bunkering of liquefied natural gas fuelled vessels'.

1 Scope

This document specifies requirements for methanol bunkering transfer systems to and from inland navigation vessels. The various scenarios for the bunker facility operator concern land, truck and vessel (barge). It concerns design, dimensions and technical requirements for the transfer of methanol, including the nozzle, connection, inner and outer flanges and failsafe features.

This document also specifies the process and procedures for the bunkering operations, as well as responsibilities and risk assessment scope, taking into consideration the specific hazards in handling and bunkering methanol fuel. Next to this, the requirement for the methanol provider to provide a bunker delivery note and training and qualification of personnel involved.

This document is not applicable to cargo operations.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13765:2018, *Thermoplastic multi-layer (non-vulcanized) hoses and hose assemblies for the transfer of hydrocarbons, solvents and chemicals - Specification*

EN 12115:2021, *Rubber and thermoplastics hoses and hose assemblies for liquid or gaseous chemicals - Specification*

EN 1092-1:2018, *Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, PN designated - Part 1: Steel flanges*

ASTM F1122-22, *Standard specification for Quick Disconnect Couplings (6 in. NPS and smaller)*

EN 14420-6:2013, *Hose fittings with clamp units - Part 6: TW tank truck couplings*

EN IEC 60309-1, *Plugs, fixed or portable socket-outlets and appliance inlets for industrial purposes - Part 1: General requirements*

ES-TRIN:2025, *European Standard for laying down Technical Requirements for Inland Navigation vessels*

ES-QIN, *European Standard for Qualifications in Inland Navigation*

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