



**Selection and use of highway tanks and TC portable tanks
for the transportation of dangerous goods, Class 2**



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transportation of dangerous goods,
Class 2***



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Preface

This is the sixth edition of CSA B622, *Selection and use of highway tanks, TC portable tanks for the transportation of dangerous goods, Class 2*. It supersedes the previous editions published in 2014, 2009, 2003, 1998, and 1987, under the title *Selection and use of highway tanks, multi-unit tank car tanks, and portable tanks for the transportation of dangerous goods, Class 2*.

The major changes to this edition include the following:

- revised emergency discharge control of tanks in compressed liquefied gas service (not including class 2.2);
- revised and updated nurse tank and nurse tank piping requirements for the agricultural sector;
- emergency shutoff marking requirements for manually activated remote shutoff device;
- portable tanks loaded while on vehicle require tank securement designed by engineer;
- minimum two chock blocks required when using chock blocks to prevent unintended vehicle movement; and
- revised dangerous goods table sorted by UN number.

This Standard is one of a series of Standards prepared for use in conjunction with the *Transportation of Dangerous Goods Regulations*. It should be noted that this Standard, by itself, does not have the force of law unless it is officially adopted by a regulatory authority. Since the Standard may be adopted into regulations with certain exceptions or additional requirements, it is recommended that the regulations of the relevant jurisdiction be consulted in order to establish the extent to which this Standard has been adopted. Where an industry practice differs from the requirements of this Standard, an application for a permit for equivalent level of safety may be requested from the regulatory authority.

This Standard was prepared by the CSA Technical Committee on Highway Tanks and TC Portable Tanks for the Transportation of Dangerous Goods, made up of members having responsibilities and expertise as manufacturers and users, or representing related areas, including testing and inspection of tanks, materials production, and regulatory interests. It was believed that such a Standard, developed by consensus, would be practical, current with respect to technology and industry practices, useful, and acceptable to all interested parties.

This Standard was prepared giving due consideration to current industry practices in North America, the *US Code of Federal Regulations*, Title 49, and the United Nations publication *Recommendations on the Transport of Dangerous Goods, Model Regulations*. This Standard takes into account recent proven experience and the current technical advances made in the field. This Standard does not deviate fundamentally from the current industry practices in North America; most changes made involve clarification, corrections, and reorganization. CSA B620:20, *Highway tanks and TC portable tanks for the transportation of dangerous goods*, is the reference document for design, construction, testing, and inspection requirements.

This Standard was prepared by the Technical Committee on Highway Tanks and TC Portable Tanks for Transportation of Dangerous Goods, under the jurisdiction of the Strategic Steering Committee on Public Safety, and it has been formally approved by the Technical Committee.

This Standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

Notes:

- 1) Use of the singular does not exclude the plural (and vice versa) when the sense allows.

- 2) Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.
- 3) This Standard was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this Standard.
- 4) To submit a request for interpretation of this Standard, please send the following information to inquiries@csagroup.org and include “Request for interpretation” in the subject line:
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- 5) This Standard is subject to review within five years from the date of publication. Suggestions for improvement will be referred to the appropriate committee. To submit a proposal for change, please send the following information to inquiries@csagroup.org and include “Proposal for change” in the subject line:
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 - b) relevant clause, table, and/or figure number;
 - c) wording of the proposed change; and
 - d) rationale for the change.

CSA B622:20

Selection and use of highway tanks and TC portable tanks for the transportation of dangerous goods, Class 2

1 Scope

1.1

This Standard details the requirements for the selection and use, handling, filling, and unloading of highway tanks and TC portable tanks used as means of containment for the transportation of dangerous goods of Class 2.

1.2

This Standard sets out certain minimum requirements for the selection of the appropriate means of containment for the transportation of dangerous goods. This Standard does not, however, prescribe selection of the materials of construction of the means of containment to ensure chemical compatibility with the dangerous goods. Consequently, it is essential to exercise competent technical and engineering judgment in conjunction with this Standard.

1.3

Where any requirement of this Standard differs from the *Transportation of Dangerous Goods (TDG) Regulations*, the requirements of the *TDG Regulations* apply. Where there is an inconsistency between this Standard and a referenced publication other than the *TDG Act* or *Regulations*, the requirements of this Standard prevail. Application of a referenced publication should be made only with careful consideration of this Standard's reference to that particular publication.

1.4

This Standard does not apply to tubes for the transportation of gases. Requirements for these tubes are provided in CSA B340.

1.5

This Standard does not apply to TC 106, TC 110, CTC 106, CTC 110, DOT 106, DOT 110, ICC 106, and ICC 110 tanks. Requirements for these tanks are provided in TP 14877. (See Clause [4.3](#).)

1.6

In this standard, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the Standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the Standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.