



# CSA B625:20

## National Standard of Canada



# Portable tanks for the transport of dangerous goods



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# *National Standard of Canada*

## *CSA B625:20*

### *Portable tanks for the transport of dangerous goods*



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# Contents

Technical Committee on Portable Tanks for the Transportation of Dangerous Goods	5
Preface	8
<b>1 Scope</b>	<b>10</b>
<b>2 Reference publications</b>	<b>11</b>
<b>3 Definitions</b>	<b>13</b>
<b>4 General requirements</b>	<b>17</b>
4.1 General	17
4.2 Classification	17
4.3 Annex <a href="#">A</a> and list of dangerous goods	18
4.4 Annex <a href="#">B</a> and special provisions	18
4.5 Conflict	18
4.6 Danger to public safety	18
4.7 Venting and loss of content	18
4.8 Quality control manual	18
4.8.1 Scope	18
4.8.2 Application	18
4.9 Qualifications for personnel conducting non-destructive testing	18
4.10 Qualifications for tank designers	19
<b>5 Design and construction requirements</b>	<b>19</b>
5.1 Requirements for the design and construction of all UN portable tanks	19
5.1.1 General requirements and design criteria	19
5.1.2 Materials	20
5.1.3 Shells	22
5.1.4 Service equipment	23
5.1.5 Pressure-relief devices	24
5.1.6 Gauging devices	26
5.1.7 Portable tank supports, structural equipment, and lifting and tie-down attachments	26
5.1.8 Marking	27
5.2 Additional requirements for the design and construction of UN portable tanks intended for solids or liquids of Class 1 or Classes 3 to 9	29
5.2.1 General	29
5.2.2 Additional general requirements and design criteria	30
5.2.3 Shells	30
5.2.4 Service equipment	32
5.2.5 Pressure-relief devices	34
5.2.6 Vacuum-relief devices	39
5.2.7 Fusible elements	39
5.3 Additional requirements for the design and construction of UN portable tanks intended for the transportation of non-refrigerated liquefied gases of Class 2	39
5.3.1 Additional general requirements and design criteria	40
5.3.2 Materials	40

5.3.3	Shells	40
5.3.4	Service equipment	43
5.3.5	Pressure-relief devices	44
5.3.6	Additional requirements for portable tanks intended for chlorine (UN 1017)	47
5.3.7	Additional requirements for portable tanks intended for anhydrous ammonia	48
5.4	Additional requirements for the design and construction of UN portable tanks intended for the transportation of refrigerated liquefied gases of Class 2	48
5.4.1	Additional general requirements and design criteria	48
5.4.2	Materials	50
5.4.3	Shells	50
5.4.4	Service equipment	52
5.4.5	Pressure-relief devices	53
5.4.6	Gauging devices	54
5.4.7	Marking	54
5.5	Inspection during manufacturing, and initial inspection and testing	55
5.5.1	Certification	55
5.5.2	Independent inspector	55
5.5.3	Inspection during manufacturing	55
5.5.4	Initial inspection and testing	55
5.5.5	Initial inspection and test report	56
<b>6</b>	<b>Selection and use</b>	<b>57</b>
6.1	General requirements	57
6.1.1	UN portable tanks approved by Canada	57
6.1.2	UN portable tanks approved by a country other than Canada	57
6.1.3	Additional requirements for tank containers	57
6.1.4	Use of IM and IMO-type portable tanks	58
6.1.5	Substitute portable tanks	58
6.1.6	Additional general requirements for portable tanks	59
6.1.7	Pre-loading requirements	60
6.1.8	Post-loading requirements	61
6.1.9	Pre-unloading requirements	62
6.2	Additional requirements for the transport of solid or liquid dangerous goods of Class 1 or Classes 3 to 9	62
6.2.1	General	62
6.2.2	Loading requirements	63
6.2.3	Filling	63
6.2.4	Liquefaction	63
6.2.5	Additional requirements applicable to the transport of Type F organic peroxide dangerous goods	63
6.3	Additional requirements for the transport of non-refrigerated liquefied gases and chemicals under pressure of Class 2	65
6.3.1	General	65
6.3.2	Filling	66
6.3.3	Additional requirements applicable to the transport of chlorine (UN 1017)	66
6.3.4	Additional requirements applicable to the transport of anhydrous ammonia (UN 1005)	67
6.4	Additional requirements for the transport of refrigerated liquefied gases of Class 2	67
6.4.1	General	67
6.4.2	Degree of filling requirements	67

6.4.3	Actual holding time	68
6.4.4	Pre-loading requirements	68
6.4.5	Post-loading requirements	69
<b>7</b>	<b>Design approval process and documentation</b>	<b>69</b>
7.1	Approval of the design of a UN portable tank	69
7.1.1	General	69
7.1.2	Design reviewer	69
7.1.3	Submission of new design	70
7.1.4	Responsibility of the design reviewer	70
7.1.5	Design approval certificate	72
7.1.6	Permitted design variations	73
7.2	Modifications to approved UN portable tank designs	73
<b>8</b>	<b>Inspection, test, and repair of portable tanks</b>	<b>76</b>
8.1	Inspection and test of portable tanks	76
8.1.10	Inspection and testing of UN portable tanks outside Canada	77
8.1.12	Decontamination	78
8.1.13	Inspection and test of pressure-relief devices in Class 8 dangerous goods service	78
8.2	Intermediate 2.5-year periodic inspection and test	79
8.3	5-year periodic inspection and test	80
8.4	Exceptional inspection and test	81
8.5	Internal and external inspection	81
8.5.3	Rejection criteria	82
8.6	Thickness test	83
8.6.4	Rejection criteria	83
8.7	Pressure test	83
8.7.1	General	83
8.7.4	Hydrostatic test	84
8.7.5	Pneumatic test	84
8.7.6	Pressure test rejection criteria	85
8.8	Leak test	86
8.9	Inspection and test markings	86
8.10	Inspection and test reports	87
8.11	Portable tank repairs	87
8.12	Portable tank modifications	88
8.12.1	General	88
8.12.2	Permitted modifications	88
<b>9</b>	<b>Registrations and documentation</b>	<b>89</b>
9.1	Registration requirements	89
9.1.1	Scope	89
9.1.2	Registration of facilities for portable tank manufacture, modification, inspection, test and repair	89
9.1.3	Registration of design reviewers and independent inspectors	90
9.1.4	Registration of facilities performing the dynamic longitudinal impact test	91
9.1.5	Additional registration requirements and conditions	91
9.1.6	Amendments to certificates of registration	92
9.1.7	Renewal of certificate of registration	92



9.2	Certification of compliance and documentation	92
9.2.1	Affixing of metal identification plate	92
9.2.2	Certificate of compliance	93
9.3	Documentation: Issuing, retention, and transfer	93
9.3.1	Manufacturer's responsibility	93
9.3.2	Independent inspector's responsibility	93
9.3.3	Owner's responsibility	94
9.3.4	Transfer of ownership	94
9.3.5	Inspection and test facility's responsibility	94

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Annex A (normative)	— List of dangerous goods	95
Annex B (normative)	— Special provisions, T Codes, and TP notes	141
Annex C (normative)	— Dynamic longitudinal impact test	159
Annex D (informative)	— Examples of metal identification plate markings for UN portable tanks	166
Annex E (normative)	— Quality control manual	171
Annex F (informative)	— Bibliography	178

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# Preface

This is the third edition of CSA B625, *Portable tanks for the transport of dangerous goods*. It supersedes the previous editions, published in 2013 and 2008.

This Standard is one of a series of Standards prepared for use in conjunction with the *Transportation of Dangerous Goods Regulations*, which adopt this Standard by reference. Because the Regulations may adopt this Standard with certain exceptions or additional requirements, they should always be consulted in conjunction with this Standard.

The Technical Committee on Portable Tanks for the Transportation of Dangerous Goods is made up of members having responsibility for and expertise in the areas of portable tank design, design review, manufacture, inspection, test, use, and regulation. This Standard has been developed by consensus of the committee members.

This Standard is based on the United Nations' *Recommendations on the Transport of Dangerous Goods — Model Regulations*, 20th ed. rev. (2017) ("UN Recommendations"), and specifies the decision items that are left to the discretion of the "competent authority" by the UN Recommendations. The Standard contains

- the rules for the design and manufacture of UN portable tanks in Canada and their approval by Canada; and
- the provisions for the selection and use, inspection, test, and repair, in Canada, of UN portable tanks, as well as IM 101, IM 102, and IMO-type 1, 2, 5, and 7 portable tanks, regardless of where they were approved and manufactured.

This Standard requires that each UN portable tank design approved or manufactured in Canada be reviewed and approved by a design reviewer registered with Transport Canada. The design reviewer has the responsibility of issuing the design approval number and the design approval certificate of UN portable tank designs on behalf of the competent authority in Canada, Transport Canada.

In addition to other requirements, this Standard prescribes that the shell of certain types of UN portable tanks be designed, constructed, certified, and stamped (the "U" stamp) in accordance with the requirements of the ASME *Boiler and Pressure Vessel Code*, Section VIII, Division 1. This provision triggers certain requirements, including the requirements for certain inspections to be carried out by "authorized inspection agencies" that are accredited in accordance with applicable requirements of the ASME *Code*. For the purpose of carrying out "authorized inspection agency" functions, any authorized inspection agency holding a valid authorized inspection agency certificate of accreditation is acceptable.

This Standard also specifies conditions for the handling, offering for transport, or transport, in Canada, of UN portable tanks approved by a foreign jurisdiction and manufactured outside Canada. Such tanks may be used as specified, provided that they are designed and manufactured in accordance with the UN Recommendations and the applicable national regulations of the country of approval and the country of manufacture, and that the tanks' shells are designed and manufactured in accordance with the ASME *Code*, Section VIII, Division 1 or 2.

The major changes to this edition of the Standard are the following:

- alignment of technical requirements with the 20th edition of the UN *Recommendations*;
- revised quality manual requirements to allow for harmonized documentation requirements with CSA B620 for those facilities also registered under that safety standard for Highway and TC portable tanks;

- restructuring of registration requirements to simplify the number of registration types; and
- limiting the pressure vessel code acceptability of foreign-approved tanks to the ASME *Boiler and Pressure Vessel Code*, Section VIII, Division 1 or 2. Foreign-approved tanks built after 2018 to the ASME *Boiler and Pressure Vessel Code*, Section VIII, Division 1 and used for Class 2 or toxic inhalation hazard dangerous goods will need to be U-stamped.

It is the intent of the Technical Committee to maintain this Standard in a manner that provides the maximum degree of harmonization with the UN Recommendations while meeting the needs of Canada.

This Standard was prepared by the Technical Committee on Portable Tanks for the Transportation of Dangerous Goods, under the jurisdiction of the Strategic Steering Committee on Mechanical Industrial Equipment Safety, and 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.

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# *CSA B625:20*

## ***Portable tanks for the transport of dangerous goods***

### **1 Scope**

#### **1.1**

This Standard applies to the design and manufacture of UN portable tanks and their approval by the Competent Authority of Canada. Such UN portable tanks have a capacity greater than 450 L and might or might not meet the definition of “container” within the terms of the International Maritime Organization’s *International Convention for Safe Containers, 1972*.

In addition to the provisions of this Standard, unless otherwise specified, the applicable provisions of the *International Convention for Safe Containers, 1972* would apply to any portable tank which meets the definition of a “container” within the terms of that Convention.\* Additional provisions might apply to offshore portable tanks that are handled in open seas.

The International Convention for Safe Containers does not apply to offshore tank containers that are handled in open seas. The design and testing of offshore tank containers takes into account the dynamic lifting and impact forces that might occur when a tank is handled in open seas in adverse weather and sea conditions. The provisions for such tanks are determined by the approving competent authority.

This Standard also applies to the selection, use, inspection, testing, and repair of UN portable tanks, as well as IMO-type portable tanks (IMO-type 1, 2, 5, or 7 tanks), and IM 101 and IM 102 portable tanks, for handling, offering for transport, or transport of dangerous goods in Canada, whether or not they meet the definition of “container” within the terms of the *International Convention for Safe Containers, 1972*.

\* *In Canada, the Safe Containers Convention Act and the Safe Containers Convention Regulations have been adopted to give effect to the provisions of the Convention.*

#### **1.2**

The testing and evaluation of a product in accordance with this Standard can involve the use of processes, materials, and/or equipment that can be hazardous. This Standard does not address the occupational health and safety aspects associated with its use. Anyone using this Standard has the responsibility to consult the appropriate authorities and establish appropriate health and safety practices in conjunction with any applicable regulatory requirements.

#### **1.3**

The *Transportation of Dangerous Goods Act, 1992*, and the *Transportation of Dangerous Goods Regulations* might set out requirements that are additional to or different from those in this Standard. Where there is an inconsistency between the requirements of this Standard and those of the Act or Regulations, the Act or Regulations takes precedence to the extent of the inconsistency.