



Hand-held torches for fuel gases



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National Standard of Canada

CSA 2.29:21
Hand-held torches for fuel gases

IGAC

Interprovincial Gas Advisory Council



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Preface

This is the second edition of CSA 2.29, *Hand-held torches for fuel gas*. It supersedes the previous edition published in 1997.

The major changes to this edition include the following:

- a) removal of the mercurous nitrate immersion test;
- b) addition of the salt spray and ammonia vapour test; and
- c) updated formatting throughout the Standard.

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was prepared by the Technical Committee on Gas Appliances and Related Accessories, under the jurisdiction of the Strategic Steering Committee on Standards for Gas Appliances and Related Accessories, and has been formally approved by the Technical Committee and the national provincial/Territorial Gas Advisory Council.

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.

Interpretations: The Strategic Steering Committee on Standards for Gas Appliances and Related Accessories has provided the following direction for the interpretation of standards under its jurisdiction: “The literal text shall be used in judging compliance of products with the safety requirements of this Standard. When the literal text cannot be applied to the product, such as for new materials or construction, and when a relevant committee interpretation has not already been published, CSA Group’s procedures for interpretation shall be followed to determine the intended safety principle.”

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:*
 - a) *define the problem, making reference to the specific clause, and, where appropriate, include an illustrative sketch;*
 - b) *provide an explanation of circumstances surrounding the actual field condition; and*
 - c) *where possible, phrase the request in such a way that a specific “yes” or “no” answer will address the issue. Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization and are available on the Current Standards Activities page at standardsactivities.csa.ca.*
- 5) *This Standard is subject to review within five years from the date of publication. Suggestions for its improvement should 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:*
 - a) *Standard designation (number);*
 - b) *relevant clause, table, and/or figure number;*
 - c) *wording of the proposed change; and*
 - d) *rationale for the change.*

CSA 2.29:21

Hand-held torches for fuel gases

1 Scope

1.1

This Standard applies to newly-produced torches for use with propane, butane, natural gas, and MPS (methyl acetylene-propadiene stabilized). This Standard applies to torches that aspirate atmospheric air for combustion.

1.2

This Standard applies to hand-held torches intended for industrial applications such as brazing, soldering, pre-heating for welding, heat treatment, and general applications such as grass burning, paint removal, and the eradication of weeds and insects.

1.3

Torches covered by these requirements are intended

- a) for direct connection to
 - i) specification TC-2P and TC-2Q non-refillable containers, meeting the requirements of CAN/CGSB-43.123, and the Transportation of Dangerous Goods Regulations; or
 - ii) specification TC-39 non-refillable containers, meeting the requirements of CSA B339, and the Transportation of Dangerous Goods Regulations;
- b) for direct connection to refillable containers meeting the requirements of CSA B339 and the Transportation of Dangerous Goods Regulations;
- c) to incorporate an integral, refillable, or non-refillable cylinder that meets the requirements of Items a) or b); or
- d) for hose connection to the fuel gas supply, with or without a regulator.

Note: Provided that a torch meets the requirements of this Standard, there is no maximum or minimum rate of firing and except as noted in Clause 4.7.1, there is no capacity limitation on the fuel container.

1.4

Torches covered by this Standard are intended to be used in accordance with the

- a) applicable provisions of CSA B149.1;
- b) requirements of the authority having jurisdiction; or
- c) applicable provisions of CSA B149.1 and requirements of the authority having jurisdiction.

1.5

This Standard applies to torches constructed entirely of new, unused parts and materials.

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.