

**SS 401:2023**  
**JIS S 2147:2017, MOD**  
(ICS 75.200)

**SINGAPORE STANDARD**

**Specification for portable gas appliances –  
General specifications and test methods**

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## **Foreword**

This Singapore Standard was prepared by the Working Group on Portable Gas Appliances and Canisters set up by the Technical Committee on Safety and Health Involving Equipment under the purview of the Quality and Safety Standards Committee.

It covers the specifications for portable gas appliances that are used with non-refillable LPG canisters in Singapore. The objectives are to prevent potential fire and explosive hazards faced by consumers when non-conforming portable gas appliances are used.

This standard is a modified adoption of JIS S 2147:2017, "Portable gas cookers with LPG cartridge", published by the Japanese Standards Association. It is adopted with the permission of the Japanese Industrial Standards Committee.

In this standard, certain modifications due to national requirements and the particular needs of the local industry have been made. Except for the alternate terminologies, these modifications are marked by a vertical bar on the left margin of the standard. A complete list of modifications, together with their justifications, is given in Annex ZA.

In Singapore, only gas canisters conforming to SS 400, "Specification for liquefied petroleum gas and non-refillable gas canisters for portable gas appliances" are used. Such appliances are not used nor modified for connection to piped-in town gas or LPG cylinders. Precautions and recommendations on use of these appliances indicated in the manufacturer's operational manual are strictly adhered to.

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

### **NOTE**

- 1. Singapore Standards (SSs) and Technical References (TRs) are reviewed periodically to keep abreast of technical changes, technological developments and industry practices. The changes are documented through the issue of either amendments or revisions. Where SSs are deemed to be stable, i.e. no foreseeable changes in them, they will be classified as "mature standards". Mature standards will not be subject to further review unless there are requests to review such standards.*
- 2. An SS or TR is voluntary in nature except when it is made mandatory by a regulatory authority. It can also be cited in contracts making its application a business necessity. Users are advised to assess and determine whether the SS or TR is suitable for their intended use or purpose. If required, they should refer to the relevant professionals or experts for advice on the use of the document. Enterprise Singapore and the Singapore Standards Council shall not be liable for any damages whether directly or indirectly suffered by anyone or any organisation as a result of the use of any SS or TR. Although care has been taken to draft this standard, users are also advised to ensure that they apply the information after due diligence.*
- 3. Compliance with a SS or TR does not exempt users from any legal obligations.*

# Specification for portable gas appliances – General specifications and test methods

## 1 Scope

This standard specifies the requirements for portable appliances that utilise a canister filled with liquefied petroleum gas (LPG), which is integrated into the appliance either as one of its components or as an accessory.

## 2 Normative references

The following referenced documents are indispensable for the application of this standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

JIS S 2010	Aluminium cookwares
JIS S 2149	Bimetal type thermal switches for gas appliances
JIS Z 2371	Methods of salt spray testing
JIS Z 8703	Standard atmospheric conditions for testing
JIS Z 8731	Acoustics – Description and measurement of environmental noise
SS 400	Specification for liquefied petroleum gas and non-refillable gas canisters for portable gas appliances