
**Domestic gas cooking appliances —
Safety —**

**Part 22:
Particular requirements for ovens and
compartment grills**

*Appareils de cuisson domestiques utilisant les combustibles gazeux —
Sécurité —*

*Partie 22: Exigences particulières pour les fours et compartiments de
grillage*



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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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Contents

Page

Foreword	vi
Introduction	vii
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
3.1 Definitions relating to appliances	2
3.2 Definitions relating to components	2
4 Components in gas cooking appliances	2
4.1 General	2
4.2 Manual gas shut-off valves (Taps)	2
4.3 Knobs	3
4.4 Multifunctional controls	3
4.5 Thermoelectric flame supervision controls	3
4.6 Thermostats	3
4.7 Pressure regulators	3
4.8 Automatic shut-off valves	3
4.9 Injectors and adjusters	3
4.10 Ignition systems	3
4.11 Thermal cut-outs	3
4.12 Cooling fan	3
4.13 Forced convection fan	3
5 General conditions of test	3
5.1 Reference conditions	3
5.2 Reference and test gases	4
5.3 Test pressures	4
5.4 Temperature conditions	4
5.5 Adjustment of the burner	4
5.6 Test installation	4
5.7 Characteristics of the test pans	4
5.8 Ovens or compartment grills operated in the forced convection mode	4
5.9 Portable ovens and compartment grills	4
6 Heat input	4
6.1 General	4
6.2 Obtaining the nominal heat input	4
6.2.1 Test of oven and compartment grill with a thermostat	4
6.2.2 Test of oven and compartment grill without a thermostat	5
6.3 Measurements and calculations	5
6.4 Obtaining the reduced heat input	5
6.4.1 Requirement	5
6.4.2 Test	5
6.4.3 Test of oven and compartment grill burner	5
6.5 Total heat input	5
7 Heating	5
7.1 General	5
7.2 Operating conditions	5
7.3 Heating tests	6
7.3.1 Requirement	6
7.3.2 Test under normal operation	6
7.3.3 Simultaneous operation of oven burner and compartment gas grill burner	7
7.3.4 Temperatures of accidentally touchable surfaces	7
7.4 Abnormal operation	13
7.4.1 General	13

	7.4.2	Blocking of the cooling fan	13
	7.4.3	Failure of the thermostat	14
	7.4.4	Temperature of components in abnormal forced convection mode	14
8	Combustion		14
	8.1	Measurement of all burners simultaneously	14
	8.2	Blocked combustion products outlet	15
	8.3	Analysis of the combustion products	15
	8.4	Ovens and compartment grills	15
	8.4.1	General	15
	8.4.2	Combustion with reference gas	15
	8.4.3	Combustion with limit gas	15
	8.4.4	Simultaneous operation of oven and a compartment grill burner	15
	8.4.5	Combustion with fluctuation of the electrical supply	16
	8.4.6	Combustion under abnormal operation	16
	8.5	Forced convection ovens or compartment grills	17
	8.5.1	General	17
	8.5.2	Abnormal forced convection mode of forced convection ovens or compartment grills	17
9	Ignition, cross-lighting and flame stability		17
	9.1	General	17
	9.2	Movement of oven/grill door or cabinet door	17
	9.3	Oven and compartment grill burner	17
	9.3.1	General	17
	9.3.2	Cold conditions	18
	9.3.3	Hot conditions	19
	9.4	Forced convection ovens or compartment grills	19
	9.4.1	General	19
	9.4.2	Abnormal operation of forced convection ovens or compartment grills	19
	9.5	Simultaneous operation of the oven burner and a compartment grill burner	19
	9.5.1	General	19
	9.5.2	Cold conditions	20
	9.5.3	Hot conditions	21
	9.5.4	Movement of oven door or cabinet door during simultaneous operation	22
	9.6	Ignition test of pyrolytic-self-cleaning oven and compartment grills	22
	9.6.1	Requirement	22
	9.6.2	Test	22
10	Accumulation of unburnt gas and leak tightness		22
	10.1	Accumulation of unburnt gas	22
	10.2	Leakage	22
	10.3	Leak tightness of the appliance	22
	10.4	Spillage of un-burnt gas inside the appliance	22
	10.4.1	Requirement	23
	10.4.2	Test	23
	10.4.3	Accumulation of unburnt LPG	23
11	Construction		23
	11.1	General	23
	11.2	Materials	23
	11.3	Gas inlet connections	23
	11.4	Conversion to different gases	23
	11.5	Pull forces of knobs for manual gas shut-off valves (taps)	23
	11.6	Appliances that enable the user to program the start or the end of the cooking cycle	23
	11.7	Compartment for one gas cylinder	23
	11.8	Touch controls	23
	11.9	Door lock at high temperature	24
	11.9.1	Requirement	24
	11.9.2	Test	24

11.10	Appliances having pyrolytic-self-cleaning ovens and compartment grills	24
11.10.1	Door locking means for pyrolytic-self-cleaning oven and compartment grills	24
11.10.2	Temperature limiting means for pyrolytic-self-cleaning ovens and compartment grills	24
11.10.3	Vapour combustion or flash-out during the pyrolytic-self-cleaning cycle	25
11.10.4	Flue gas temperatures of pyrolytic-self-cleaning ovens and compartment grills	25
11.11	Ignition with an external lighter	26
12	Mechanical strength	26
12.1	Parts made of glass and glass-ceramic	26
12.1.1	General	26
12.1.2	Spring hammer test	26
12.1.3	Punch test	27
12.1.4	Appliance door	27
12.2	Appliance body of freestanding appliances	27
12.2.1	Requirement	27
12.2.2	Test	27
12.3	Oven door strength	27
12.3.1	Requirement	27
12.3.2	Test	27
12.4	Tilting of freestanding ovens and compartment grills	28
12.4.1	Tilting	28
12.4.2	Tilting under special conditions	28
12.5	Strength and stability of oven and grill accessories	29
12.5.1	Requirement	29
12.5.2	Test	29
12.6	Portable ovens and compartment grills	29
12.6.1	General	29
12.6.2	Tilting of portable ovens and compartment grills	29
13	Electrical safety	30
14	Marking and instructions	30
14.1	Marking	30
14.1.1	Marking on the appliance	30
14.2	Instructions	30
Annex A	(informative) National deviations in various countries	31

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 291, *Domestic gas cooking appliances*.

A list of all parts in the ISO 21364 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document provides general requirements for safety of domestic gas cooking appliances.

This document can also be applied, so far as is reasonable, to appliances not mentioned in this specific standard and to appliances designed on the basis of new principles, in which case additional requirements may be necessary.

Where no specific document for an appliance exists, the appliance can be tested according to this document and further tests which take into account the intended use.

Gas burning appliances using fuel gases need to withstand the type of gas which is specified. Other ISO technical committees, e.g. ISO/TC 193, Natural gas, deal with the testing and properties of fuel gases.

Note that, due to the differing properties of fuel gas depending on its source/region of origin, certain differences in regulations exist at present in different regions; some of these differences are presented in [Annex A](#).

This document covers type testing.

This document series is structured as follows:

ISO 21364 Domestic gas cooking appliances – Safety

- Part 1: General requirements
- Part 21: Particular requirements for hobs, surface grills and griddles
- Part 22: Particular requirements for ovens and compartment grills

This document is to be used in conjunction with ISO/TS 21364-1:2021.

This document is designed to be used in combination with ISO 21364-1. Together, they establish the full requirements as they apply to the product covered by this document. Where needed, this document adapts ISO 21364-1 by stating in the corresponding clause:

- “with the following modification”;
- “with the following addition”;
- “is replaced by the following”;

or

- “is not applicable”.

In order to identify specific requirements that are particular to this document, that are not already covered by ISO 21364-1, this document may contain clauses or subclauses that are additional to the structure of ISO 21364-1.

To ensure global relevance of this document, the differing requirements resulting from practical experience and installation practices in various regions of the world have been taken into account. The variations in basic infrastructure associated with appliances have also been recognized, some of which are addressed in ISO/TS 21364-1:2021, Annex E and ISO/TS 21364-22:2021, Annex A. This document intends to provide a basic framework of requirements that recognize these differences.

Domestic gas cooking appliances — Safety —

Part 22:

Particular requirements for ovens and compartment grills

1 Scope

This document specifies particular requirements for safety, construction and materials of domestic gas ovens and compartment grills. For general requirements for safety, construction and materials of gas ovens and compartment grills, ISO/TS 21364-1:2021 applies.

This document covers the following gas cooking appliances:

- ovens with natural or forced convection;
- pyrolytic-self-cleaning ovens and pyrolytic-self-cleaning compartment grills;
- compartment grills

being built-in, table top or part of a cooking range.

- oven accessories

It does not cover gas ovens and compartment grills intended for outdoor use and/or commercial use as well as electrical heated elements as part of the appliance. It does also not cover appliances with automatic burner control systems.

NOTE 1 For requirements of electrical safety refer to the IEC60335 standards series.

NOTE 2 Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- in many countries additional requirements are specified by the national health authorities, the national water supply authorities and similar authorities.

This document does not cover requirements relating to gas cylinders, their pressure regulators and their connections.

This document does not cover requirements for gas installation.

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.

ISO 3864-1:2011, *Graphical symbols — Safety colours and safety signs — Part 1: Design principles for safety signs and safety markings*

ISO/TS 21364-1:2021, *Domestic gas cooking appliances – Safety- Part 1: General requirements*

ISO/TS 21364-21:2021, *Domestic gas cooking appliances – Safety – Part 21: Particular requirements for gas hobs, gas grills and gas griddles*

IEC 60335-2-102:2017, *Household and similar electrical appliances — Safety — Part 2-102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections*

IEC 60417, *Graphical symbols for use on equipment*

IEC 60584-1:2013, *Thermocouples - Part 1: EMF specifications and tolerances*

IEC 61032:1997, *Protection of persons and equipment by enclosures – Probes for verification*

3 Terms and definitions

For the purposes of this document, the terms and definitions of ISO/TS 21364-1:2021 apply with the following additions.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1 Definitions relating to appliances

3.1.1

pyrolytic self-cleaning oven

oven in which cooking deposits are removed by heating the oven to a temperature exceeding 350 °C

[SOURCE: IEC 60335-2-6:2014, 3.105]

3.1.2

cooking surface

horizontal surface of the hob section

3.1.3

forced convection mode

heating mode for appliances equipped with a fan intended to assist the transmission of heat by creating a forced circulation of air or products of combustion

Note 1 to entry: This fan is not intended to supply combustion air.

3.2 Definitions relating to components

3.2.1

evacuation duct

device for transporting combustion products out of the appliance

4 Components in gas cooking appliances

Clause 4 of ISO/TS 21364-1:2021 applies.

4.1 General

ISO/TS 21364-1:2021, 4.1 applies.

4.2 Manual gas shut-off valves (Taps)

ISO/TS 21364-1:2021, 4.2 applies.