

DIN EN 30-1-1:2024-07 (E)

Domestic cooking appliances burning gas - Part 1-1: Safety - General (includes Amendment 1:2023)

Contents		Page
European foreword		5
1	Scope	7
2	Normative references	8
3	Terms and definitions	9
4	Classification	20
4.1	Gases and appliance categories	20
4.2	Classes of appliances	20
5	Constructional requirements	20
5.1	General	20
5.1.1	Conversion to different gases	20
5.1.2	Materials	22
5.1.3	Ease of cleaning and maintenance	23
5.1.4	Strength	24
5.1.5	Soundness of the gas circuit assembly	24
5.1.6	Connections	25
5.1.7	Movable appliances	26
5.1.8	Fixing or stability of appliances	26
5.1.9	Additional components	26
5.1.10	Safety of operation in the event of fluctuation, interruption and restoration of the auxiliary energy	27
5.1.11	Electrical safety of appliances and immunity to electromagnetic phenomena	27
5.2	Special requirements	27
5.2.1	Taps	27
5.2.2	Knobs	28
5.2.3	Injectors and adjusters	29
5.2.4	Oven thermostats	31
5.2.5	Ignition systems	31
5.2.6	Flame supervision devices	31
5.2.7	Pressure regulators	31
5.2.8	Hobs	32
5.2.9	Ovens and grills	34
5.2.10	Cylinder compartment	36
5.2.11	Appliances with a cooling fan	37
5.2.12	Accumulation of un-burnt gas	37
5.2.13	Additional requirements for appliances incorporating one or more burners that enable the user to program the delayed start and the end of a cooking cycle	38
5.2.14	Multifunctional controls	39
5.2.15	Shut-off valves	39
6	Operational requirements	39
6.1	General	39
6.1.1	Soundness	39
6.1.2	Obtaining the input rates	39
6.1.3	Flame supervision devices	39
6.1.4	Safety of operation	40
6.1.5	Heating	40

6.1.6	Temperature of the LPG cylinder and its compartment	43
6.1.7	Total input of the appliance	44
6.1.8	Pressure regulator performance	44
6.1.9	Blocking of the cooling fan and failure of the thermostat	44
6.2	Special requirements for hobs	44
6.2.1	Ignition, cross-lighting and flame stability	44
6.2.2	Combustion	45
6.3	Special requirements for ovens and grills	45
6.3.1	Ignition, cross-lighting and flame stability	45
6.3.2	Combustion	46
7	Test methods	47
7.1	General	47
7.1.1	Reference and test gases	47
7.1.2	Test pressures	47
7.1.3	Test procedures	47
7.1.4	Pans	51
7.1.5	Ovens and grill temperatures	53
7.1.6	Appliances having a mains electrical supply	53
7.1.7	Appliances having one or more multi-ring hob burners	53
7.2	Verification of construction characteristics	53
7.2.1	Strength	53
7.2.2	Strength, stability	55
7.2.3	Appliances with a glass lid having a device for shutting off the gas to the hob burners ...	57
7.3	Verification of operational characteristics	57
7.3.1	General tests	57
7.3.2	Specific tests for hobs	70
7.3.3	Specific tests for ovens and grills	79
7.4	Accuracy of measuring instruments	85
8	Marking and instructions	85
8.1	Marking	85
8.1.1	General	85
8.1.2	Marking and warnings on the appliance	86
8.1.3	Additional marking and warnings on the appliance	86
8.1.4	Marking and warning on the packaging	87
8.1.5	Additional marking on the packaging	87
8.2	Instructions general	87
8.3	Instructions for installation	87
8.3.1	General	87
8.3.2	Instructions for installation and adjustment	87
8.3.3	Additional instructions for installation	89
8.4	Instructions for use and maintenance	90
Annex A (informative)	National situations	106
A.1	General	106
A.2	Use in different countries of the categories listed in the text of the standard	106
A.3	Supply pressures for the appliances (see 7.1.2)	106
A.4	National or local gas categories	106
A.4.1	National distribution	106
A.4.2	Categories	106
A.4.3	Permitted operations for changing gas	106
A.5	Test gases corresponding to the particular categories given in A.4	106
A.6	Special conditions	106
A.7	Connection requirements in force in various countries (see 5.1.6)	107
Annex B (informative)	Guidelines for extension to other categories	111
B.1	General	111
Annex C (normative)	Characteristics of the pans required	112

C.1	Pans required for testing on gas burners	112
C.2	Characteristics of pans for testing on electric cooking plates	114
Annex D (normative) Surface temperature probe (7.3.1.5.3.2)		115
D.1	Design	115
D.2	Validation test	115
D.2.1	Principle	115
D.2.2	Procedure	115
D.2.3	Validation	115
Annex E (normative) Use of symbols on the appliance and packaging		117
E.1	Information having to appear on the appliance and packaging, in accordance with Clause 8	117
E.1.1	Electricity supply	117
E.1.2	Type of gas	117
E.1.3	Pressure	118
E.1.4	Country	118
E.1.5	Category	118
E.2	Other optional information	118
E.2.1	General	118
E.2.2	Nominal heat input of a burner	118
E.2.3	Nominal heat input of all appliance burners	118
E.3	Information that shall be on the appliance and its packaging, in accordance with 8.1 and 8.2	118
Annex F (normative) Fragmentation required for toughened soda-lime glass		121
F.1	Requirement	121
F.2	Test method	121
Annex G (informative) Examples of types of multi-ring burners and their operating modes		123
Annex ZA (informative) Relationship between this European Standard and the essential requirements of EU Regulation 2016/426/EU aimed to be covered		124
Bibliography		127