

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

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

---

<b>Contents</b>		<b>Page</b>
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
<b>Annex D (normative) Surface temperature probe (7.3.1.5.3.2) .....</b>		<b>115</b>
D.1	Design .....	115
D.2	Validation test .....	115
D.2.1	Principle .....	115
D.2.2	Procedure .....	115
D.2.3	Validation .....	115
<b>Annex E (normative) Use of symbols on the appliance and packaging .....</b>		<b>117</b>
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
<b>Annex F (normative) Fragmentation required for toughened soda-lime glass .....</b>		<b>121</b>
F.1	Requirement .....	121
F.2	Test method .....	121
<b>Annex G (informative) Examples of types of multi-ring burners and their operating modes .....</b>		<b>123</b>
<b>Annex ZA (informative) Relationship between this European Standard and the essential requirements of EU Regulation 2016/426/EU aimed to be covered .....</b>		<b>124</b>
<b>Bibliography .....</b>		<b>127</b>