

DIN EN 497:2022-09 (E)

Specification for dedicated liquefied petroleum gas appliances - Multi purpose boiling burners for outdoor use - Cooking vessels with a diameter greater than 300 mm

Contents		Page
European foreword		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	6
4	Classification	11
4.1	Classification of gases used	11
4.2	Classification of appliances	11
5	Constructional characteristics	12
5.1	Conversion to different gases	12
5.2	Materials	12
5.3	Ease of cleaning	12
5.4	Strength	13
5.5	Assembly	13
5.6	Stability of the appliance	13
5.6.1	Stability of the appliance on a horizontal surface	13
5.6.2	Stability of the appliance placed on a slope	13
5.6.3	Vessel stability	13
5.7	Construction of the gas circuit assembly	13
5.8	Connections	14
5.9	Blocking of wheels and castors	14
5.10	Taps	14
5.11	Control handles	15
5.11.1	Construction	15
5.11.2	Marking	15
5.12	Injectors	16
5.13	Ignition devices	16
5.14	Flame supervision devices	16
5.15	Burners	16
5.16	Appliance incorporating a gas container	17
5.17	Appliances with compartment	17
6	Performance characteristics	18
6.1	Soundness	18
6.2	Verification of the nominal heat input	18
6.3	Flame supervision devices	18
6.4	Safety of operation	18
6.4.1	Ignition, crosslighting	18
6.4.2	Flame stability	18
6.4.3	Resistance to draught	18
6.4.4	Resistance to overheating	18
6.5	Temperatures	19
6.6	Combustion	20
6.7	Sooting	20
6.8	Rational use of energy	20

6.9	Durability of markings on the appliance	20
6.10	Overheating of the gas container	20
7	Test methods	21
7.1	General	21
7.1.1	Test gases	21
7.1.2	Test pressures	22
7.1.3	Test conditions	22
7.1.4	Characteristics of the test vessel	22
7.2	Verification of the constructional characteristics	23
7.2.1	Conversion to different gases	23
7.2.2	Materials	23
7.2.3	Ease of cleaning	23
7.2.4	Strength	23
7.2.5	Assembly	23
7.2.6	Stability of the appliance	23
7.2.7	Durability of markings	24
7.3	Verification of the performance characteristics	24
7.3.1	Soundness	24
7.3.2	Nominal heat input	24
7.3.3	Flame supervision device	25
7.3.4	Safety of operation	25
7.3.5	Temperatures	26
7.3.6	Combustion	27
7.3.7	Sooting	28
7.3.8	Rational use of energy	28
7.3.9	Overheating of the gas container	29
8	Marking	30
8.1	Appliance marking	30
8.2	Packaging marking	30
8.3	Instructions for installation, assembly, use and maintenance	30
Annex A (informative) National situations		35
A.1	General	35
A.2	Categories marketed in the various countries and corresponding pressures	35
A.3	Types of connection used in various countries	37
A.4	Connection of appliances	38
Annex B (normative) Method of calculation of the nominal heat input		40
Annex C (normative) Composition of test gases		42
Annex D (normative) Surface temperature probe		43
D.1	Design	43
D.2	Validation test	43
D.2.1	Principle	43
D.2.2	Procedure	43
D.2.3	Validation	44
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of Regulation (EU) 2016/426 aimed to be covered		45
Bibliography		48