



TÜVRheinland®

DIN CERTCO

Genau. Richtig.



Certification Scheme

Single use barbecues burning solid fuels (Single-use barbecues)

in accordance with

DIN EN 1860-4

(Edition: March 2020)

Foreword

DIN CERTCO was founded in 1972 by DIN e.V. the German Institute of Standardization for the awarding of DIN marks and offers the certification of products and persons, services and enterprises on the basis of the DIN Standards and similar specifications.

To document our neutrality, independence and competence, we have an accreditation according to DIN EN ISO/IEC 17065. The satisfaction and trust of our customers and their data we ensure by the following certifications:

- Quality Management System according to DIN EN ISO 9001
- Environmental Management System according to DIN EN ISO 14001
- Occupational Health and Safety Management System according to OHSAS 18001

In addition to the general terms and conditions of DIN CERTCO, this certification scheme forms the basis for suppliers of single use barbecues burning solid fuels - hereinafter referred to as "single-use barbecues" - to label their products with the "DIN-Geprüft" certification mark. In doing so, they document that their products meet all the requirements of the European standard DIN EN 1860-4.

Compared to the consumer, the conformity mark "DIN-Geprüft" confirms that an independent, neutral and competent body has carefully examined and assessed the test criteria. The introduction of a corresponding certification mark is primarily intended to provide the consumer with information and guidance on his purchasing decision. The market surveillance also ensures that the product quality is maintained even during ongoing production.

Single use barbecues are awarded the certification mark "DIN-Geprüft" when the product requirements listed in section 3 according to the procedure described in this certification scheme are fulfilled.

All certificate holders can be accessed on the website of DIN CERTCO <www.dincertco.de>.

Start of validity

This certification scheme applies from 2020-03

Modification

Changes, they have been done in reference to the Certification Scheme for Single use barbecues in accordance with DIN EN 1860-4 (2017-06) are as follows:

- Testing procedure
- Renewal of certificate
- Editorial changes

Prevoius edition:

Certification Scheme for Single use barbecues in accordance with DIN EN 1860-4 (2017-06)
Certification Scheme for Single use barbecues in accordance with DIN EN 1860-4 (2013-11)

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1 Scope

This certification scheme applies to single use barbecues burning solid fuels and it includes in conjunction with the test specifications given below, all requirements for the award of the conformity mark "DIN-Geprüft".

This certification scheme defines requirements being needed to comply by the product itself as well its testing, surveillance and certification.

2 Test and certification specifications

The basis for the test and certification are the following documents. For dated references, only the referenced version applies. For undated references, the current edition of the referenced document, including all changes, shall apply.

DIN EN 1860-4 Appliances, solid fuels and firelighters for barbecuing – Part 4: Single use barbecues burning solid fuels – Requirements and test methods

- this Certification Scheme
- the General Terms and Conditions of DIN CERTCO
- the testing, registration and certification regulations of DIN CERTCO
- the respective schedule of fees of DIN CERTCO

3 Product requirements

3.1 Standard requirements

Materials, construction and design of single use barbecues must ensure safe use and proper operation when using solid fuels. The components grill device, grill charcoal or grill charcoal briquettes and ignition aid are taken into account when testing and certifying single use barbecues devices.

The detailed requirements for single use barbecues are specified in DIN EN 1860-4. Further requirements for the grill fuel in DIN EN 1860-2 and for the kindling aid in DIN EN 1860-3 accordingly.

3.2 Identification of product

3.2.1 Marking

The markings shall be visible, legible and permanent and at least in the language (s) of the country where the equipment is sold:

- a) Name or trademark of the manufacturer or distributor. This shall be fitted on the single use barbecue by casting, stamping, enamelling or labelling.
- b) Model or type designation. This marking may be on the packaging only.
- c) The label and/or packaging shall be marked with the following warning information:

"DO NOT REFILL! THIS BARBECUE IS FOR SINGLE USE ONLY! "
"CAUTION! DO NOT USE SPIRIT, PETROL OR COMPARABLE FLUIDS FOR LIGHTING OR RELIGHTING"

- d) Certification mark „DIN-Geprüft“ and registration number.
- e) A clear distinctive has to be created at more than a manufacturing facility. For example, you can choose a number or one or several letters for this. The identification has to be announced to DIN CERTCO in writing.
- f) To counter the risk of inflammation after use, the embers must be completely extinguished using a suitable extinguishing agent.

3.2.2 Instructions for use

The instructions for use shall be given at least in the national language(s) of the country of sale. They shall contain at least the following information and shall be supplied with each single use barbecue:

- a) the model or type designation including exploded view and parts list as applicable
- b) the statement that the single use barbecue has to be installed on a secure level base prior to use
- c) the method of correct assembly, possibly using illustrations
- d) advice on the safe operation of the single use barbecue
- e) the fuel used
- f) the correct lighting procedures including the statement "do not cook before the fuel has a coating of ash"
- g) the precautions to take to remove the foods that would be stuck on the grid to avoid the barbecue tipping over
- h) do not use in prohibited areas
- i) do not use on flammable surfaces or surfaces likely to be damaged
- j) if water is used to extinguish the single use barbecue the water in the container provided shall be drinking water
- k) the following warning notices:

"ATTENTION! This single use barbecue will become very hot, do not move it during operation"

"Do not use indoors"

"CAUTION! Do not use spirit, petrol or comparable fluids for lighting or re-lighting! "

"WARNING! Keep children and pets away."

"In order to counteract the risk of inflammation after use, the embers must be completely extinguished by a suitable extinguisher."

"DO NOT REFILL! THIS BARBECUE IS FOR SINGLE USE ONLY. DO NOT DISPOSE OF UNTIL COMPLETELY EXTINGUISHED AND COLD (USING EITHER WATER OR INCOMBUSTIBLE PACKAGING IF PROVIDED)".

4 Testing

4.1 General information

For the performance of the test required as the basis for the assessment and certification of the products, DIN CERTCO avails itself of the testing laboratories to which it has awarded the recognition.

4.2 Types of tests

4.2.1 Initial test

The initial test is a type test (model test, design test), which serves to determine whether the product complies with the requirements of section 3 of this certification scheme and the requirements for the product are met. The initial test consists of a test of the samples taken at all production sites, submitted for examination, and documented in the test report.

The test is performed in accordance with section 4.4 of this certification scheme.

The test must be documented by a positive test report submitted in due time.

4.2.2 Surveillance test

The surveillance test is performed in recurring intervals being specified (see section 7 of this certification scheme) and it is used to determine whether the certified product during the production phase corresponds to the type-tested product.

The test is performed in accordance with section 4.4 of this certification scheme.

The test of the samples taken in the market is commissioned by DIN CERTCO and must be proved by a positive test report in due time.

Within the scope of the factory production control by the certificate holder according to section 6 of the certification scheme, the conformity of the manufactured products with the specified requirements shall be ensured. This must be proved by a positive test report in due time.

4.2.3 Supplementary test

A supplementary test takes place if additions, extensions or changes (see section 5.9 of the certification scheme) have been made to the already certified product that have an impact on the conformity with the underlying requirements.

The type and scope of the supplementary test are determined in individual cases by DIN CERTCO in consultation with the testing laboratory.

4.2.4 Special test

A special test takes place:

- in the event of defects detected
- after resting production over a period of more than 6 months
- on a just cause of DIN CERTCO
- on the written application of a third party where the latter is particularly interested in the maintenance of a proper market activity in a competitive or qualitative manner

The form and scope of a special test shall be determined in accordance with the purpose in each individual case by DIN CERTCO in consultation with the testing laboratory.

If defects are detected during a special test, or if a special test is carried out due to the suspension of production, the certificate holder shall bear the costs of the special inspection procedure.

If, in the case of special tests, no deficiencies are identified at the request of third parties, the costs shall be borne by the third party submitting the application.

4.3 Sampling

Sampling takes place in the sequence of surveillance in the market (see section 7.2 of the certification scheme) and is usually carried out by the inspector commissioned by DIN CERTCO. The test samples are taken from the trade and sent to the testing laboratory ordered by DIN CERTCO. The costs are borne by the certificate holder.

The required sample size is:

- | | |
|---------------------------------|---|
| – during the initial test: | 10 single use barbecues/disposable grill |
| – during the surveillance test: | 10 single use barbecues/disposable grills |
| – when renewal: | 10 single use barbecues/disposable grills |

The samples are clearly and permanently labeled. A record of the sampling is made out. The test material must arrive in the laboratory commissioned with the test within 14 days.

4.4 Test procedure

Unless otherwise specified, the requirements must be controlled with a visual verification, length measurement, functional test and / or calculation.

4.4.1 Test of single use barbecue

4.4.1.1 Thermal test

The test is carried out in accordance with section 5.2 of DIN EN 1860-4.

4.4.1.2 Combustibility

The test is carried out in accordance with section 5.3 of DIN EN 1860-4.

4.4.1.3 Stability

The test is carried out in accordance with section 5.4 of DIN EN 1860-4.

4.4.1.4 Cooking grid

The test is carried out in accordance with section 5.5 of DIN EN 1860-4.

4.4.1.5 Dynamic test

The test is carried out in accordance with section 5.6 of DIN EN 1860-4.

4.4.1.6 Marking and instruction for use

The test is carried out in the form of a visual inspection in accordance with sections 6 and 7 of DIN EN 1860-4 (see also section 3.2 of the certification program) and in the test procedure in accordance with sections 4.3.1 and 4.3.2 (Annex D) of DIN EN 1860-3 .

4.4.2 Test of barbecue fuel

4.4.2.1 Chemical composition

The chemical composition of the fuel must only be tested if the fuel is impregnated grill charcoal or impregnated grill charcoal briquettes (see section 6.7 of DIN EN 1860-2).

Determination of the PAK / BETX values (gas chromatography) and the sulfur content, e.g. using the ICP-OES method (DIN EN ISO 11885, E22).

4.4.2.2 Total humidity

The test is carried out in accordance with section 6.1 of DIN EN 1860-2.

4.4.2.3 Ash content

The test is carried out in accordance with section 6.3 of DIN EN 1860-2.

4.4.2.4 Fixed carbon

The test is carried out in accordance with section 6.4 of DIN EN 1860-2.

4.4.3 Test of firelighter

4.4.3.1 Chemical composition

The test is carried out in accordance with section 4.1.1 of DIN EN 1860-3.

Determination of the PAK / BETX values (gas chromatography) and the sulfur content, e.g. using the ICP-OES method (DIN EN ISO 11885, E22).

4.4.3.2 Burning properties

The test is carried out in accordance with section 4.2.1 (item 4.2.1.1, test method B.3.1) of DIN EN 1860-3.

4.4.4 Additional test

4.4.4.1 Radiation intensity / ignitability

The test is carried out in accordance with section 4.2.2 of DIN EN 1860-3 and identical to Annex C. The test sample (single-use barbecues) must be attached to a tripod or plate and positioned so, that the distance between the single-use barbecues (center of the upper surface) and the thermopile is 50 cm.

The sample is arranged so that the size of its test area ($W \times L \times H$) is 16 ± 1 cm x 20 ± 1 cm x 4 ± 1 cm.

The radiation intensity of the fire is observed. When the radiation intensity has reached 500 W/m^2 , it can be assumed that the grill fuel has ignited satisfactorily. The time from the first ignition of the grill fuel until a radiation intensity of 500 W/m^2 is reached is the ignition time.

4.4.4.2 Burning time

The burning time is the measured time between the first ignition of the grill fuel and the point in time when the flames have gone out and ashes have formed.

4.4.4.3 Flammability of the packaging

The test must be carried out in accordance with section 5.1 of DIN EN 1860-4 at an ambient temperature of $(20 \pm 5) \text{ }^\circ\text{C}$ with standing air (with an air flow less than 0.5 m/s).

The single-use barbecues is set up as described in section 5.2 of DIN EN 1860-4. The ignition aid is ignited and the single-use barbecues is operated in accordance with section 4.2.6 of DIN EN 1860-4. The surface temperature of the floor, the grill and the edge of the single use barbecues is measured continuously throughout the test.

The flammability of the packaging begins after a cooking time of at least 45 minutes has been ensured, after the flames and smoke from the igniter have extinguished and ashes have formed. For the test, the single-use barbecues is returned to the packaging as it was delivered in its original packaging. The test is continued until the maximum measured surface temperature is not higher than $50 \text{ }^\circ\text{C}$.

The packaging of the single use barbecues has passed the test according to section 4.4.5.3 of the certification scheme if the surface temperature of the floor, the grill and the edge of the single use barbecues device has not exceeded the temperature of the ignition point of the packaging material (carton) and the material of the packaging (cardboard) did not ignite or glow and no flames could be observed.

The course of the temperatures measured during the test must be continuously recorded using a temperature measuring device. The test must be recorded using photo or video documentation, on which all significant changes can be seen.

4.5 Test report

The test laboratory shall notify the client of the results of the tests in a test report. This must be submitted to DIN CERTCO in the original.

The test report may not be older than 6 months at the time of application. In individual cases, older test reports may also be recognized if the test laboratory confirms in writing the validity of the information given in the test report.

The test report shall comply with DIN EN ISO/IEC 17025 and shall include at least the following information:

- Name and address of the manufacturer
- Name and address of the applicant (if different from manufacturer)
- Test principles (standards and certification scheme) incl. date of issue
- Type of test (e.g. type test, supplementary test, etc.)
- Date of the test
- Results and assessment of the test
- Name and signature of the person responsible for the test

5 Certification

5.1 Application for certification

Applicants may be producers or distributors who, in written agreement with the certificate holder, place the products on the market under their own responsibility as defined by the Product Safety Act (in German: Produktsicherheitsgesetz).

The applicant must submit the following documents to DIN CERTCO:

- Application for certification in the original and with legally binding signature
- Current test report according to section 4.5 on an initial test (see section 4.2.1), unless the test was commissioned by DIN CERTCO
- Proof of current certification according to DIN EN ISO 9001 (desirable)
- Documentation in accordance with European legislation on dangers and hazards.

Certification within the meaning of this certification scheme is the conformity assessment of a product by DIN CERTCO based on test reports from DIN CERTCO recognized testing laboratories. The products to be certified are checked for conformity (accordance) with the requirements listed in section 3.

A test shall be carried out for each manufacturing facility, which shall contain a clear and detailed reference to the products subject to surveillance.

The right of use for the conformity mark "DIN-Geprüft" is granted by issuing a corresponding certificate.

5.2 Classification of types and subtypes

Single-use barbecues, which differ from each other in essential certification-relevant characteristics, are defined as type or model. Characteristics, which are relevant for certification, are, for example, characteristics, which significantly influence safety, function or handling and are therefore marketed under a separate trade name. A separate certificate is issued for each type/model.

Subtypes are usually those of a type/model, which differ only in formal or non-certification-relevant features like e.g. packaging size. They can be summarized on a certificate.

5.3 Conformity assessment

Based on the submitted application documents DIN CERTCO carries out the conformity assessment. In particular, the test report assesses whether the product meets the requirements of the certification scheme and the standard. DIN CERTCO informs the applicant in writing about deviations.

5.4 Certificate and the right to use the mark

After successful testing and conformity assessment of the submitted application documents, DIN CERTCO issues a certificate to the applicant and grants the right of use for the conformity mark "DIN-Geprüft" in conjunction with a related register number.



Structure of the registration number: **9E000**

Single-use barbecues for which the right of use has been granted for the conformity mark "DIN-Geprüft" shall be marked with the conformity mark "DIN-Geprüft" and the related register number.

The mark and the registration number may only be used for the type for which the certificate has been issued and which corresponds to the type-tested product.

A registration number is assigned to each type. The same register number is given for design types (subtypes) of a type (see section 5.2).

In addition, the General Terms and Conditions of DIN CERTCO apply.

5.4.1 Sublicenses

It is necessary to issue a sub-certificate when a certified type/model of a barbecue fuel is marketed by another company as a (main) certificate holder or under a trade mark other than the (main) certificate.

5.5 Publications

All certificate holders can be viewed on the daily updated homepage of DIN CERTCO <www.dincertco.de>. Producers, users and consumers use this research possibility for obtaining information about the certified products.

Besides the contact data of the certificate holders (telephone, telefax, e-mail, homepage), it is also possible to view the technical data of the certified products.

5.6 Validity of certificate

The certificate has a validity of 5 years. The validity period is indicated in the certificate. If the certificate is extinguished, the right to use the right to sign expires.

5.7 Renewal of certificate

If the certification is to be maintained beyond the validity period specified in the certificate, DIN CERTCO must have a current positive test report in good time before the validity expires.

Evidence of compliance with the requirements of the test and certification basis in accordance with section 2 is provided in the scope of a surveillance test in accordance with section 4.2.2.

5.8 Expiry of certificate

Insofar as the re-testing for standard conformity according to section 4 has not taken place in due time before the end of the period of validity, the right of use for the conformity mark "DIN-Geprüft" and the registration number expires without DIN CERTCO direct notification being required.

In addition, the certificate may expire if:

- the surveillance measures referred to in section 7 are not carried out on time or incompletely
- the conformity mark "DIN-Geprüft" is abused by the certificate holder
- the requirements resulting from this certification scheme or its accompanying documents are not fulfilled
- the applicable certification fees are not paid in due time
- the conditions for issuing the certificate are no longer fulfilled

5.9 Modifications/Extensions

5.9.1 Modifications/Extensions to the product

The certificate holder is obligated to inform DIN CERTCO immediately of any changes to the product. DIN CERTCO decides, in consultation with the testing laboratory, to what extent an inspection according to section 4.2.3 is to be carried out and whether this is a significant change. The test report is forwarded by the test laboratory to DIN CERTCO.

If DIN CERTCO establishes a major change, the certificate expires with the associated registration number. For the amended product, an application for initial certification and the right of use for the certification mark "DIN-Geprüft" can be submitted again.

The certificate holder is also obliged to notify all changes to formal data of DIN CERTCO (e.g. certificate holder or its address).

Every new production facility is to be known to DIN CERTCO. If a corresponding test report is available and the product fulfills the requirements of the standard, after agreement of DIN CERTCO in writing may also be marked with the mark "DIN-Geprüft" and the already existing registration number.

5.9.2 Amendment of the test basis

If the basic test specifications for the certification are modified, an application for the alteration of the certification shall be submitted within 6 months after receiving of notification from DIN CERTCO and, as a rule, after 12 months, proof of conformity with the modified test specifications shall be submitted in the form of a positive test report (see section 4.2.3).

5.10 Defects in the product

If deficiencies in a certified product being in the market are detected, DIN CERTCO requests the certificate holder in writing to eliminate the defects.

DIN CERTCO, in consultation with the testing laboratory, decides whether it is a serious or minor defect.

In the case of defects that directly or indirectly have an influence on safety or functional performance (serious defects), the certificate holder has to ensure that the products are no longer marked with the certification mark until the defects are eliminated.

The deficiencies must also be eliminated immediately on installed or in stock products. Within 3 months, the certificate holder must prove to DIN CERTCO by submitting a test report on a special test according to section 4.2.4 that the deficiencies have been removed and that the complained product meets the specified requirements again.

In the case of defects, which do not have any influence on the safety or functional performance (minor defects), the certificate holder has to document to DIN CERTCO within 3 months and in a suitable way that the defects of the complained product have been removed.

If the certificate holder fails to meet these deadlines, the certificate and therefore the right of use for the certification mark "DIN-Geprüft" will be withdrawn.

If there is still reason for the complaint, DIN CERTCO initially suspends the certificate and at the same time, a final deadline for the elimination of defects is given. If the certificate holder fails to comply with the request or fails to comply with the deadline, or the removal of defect cannot be proved again, the certificate will be expired.

6 Self-monitoring by the certificate holder

The certificate holder must ensure that the product properties confirmed during the certification are maintained by means of appropriate quality assurance measures. This can be ensured by means of a factory-specific production control, which is directly aligned with the product or the production and through measures within the framework of a quality management system (QM system) in accordance with the series of standards DIN EN ISO 9000 ff.

If there is the QM system certified according to DIN EN ISO 9001 available, the production control must be carried out based on a statistical check according to the international standard DIN ISO 2859-1.

6.1 Production-accompanying quality assurance

The factory production control is the continuous monitoring of the production process by the certificate holder, which ensures the conformity of the manufactured products with the stipulated requirements.

Appropriate records shall be submitted to DIN CERTCO or its authorised representative on request. These records must contain at least the following information:

- Designation of the test object
- Date of manufacture
- Date of examination
- Result of the examination and, if envisaged, comparison with the stipulated requirements
- Signature of the person responsible for the examination
- Date of the report

In the event of a negative result of testing, the certificate holder must immediately take all measures for the removal of the defect. Defective products shall be marked and discarded. The test shall be repeated on a regular basis to determine whether the defect has been removed.

6.2 Quality Management System

DIN CERTCO recommends the establishment and certification of a quality management system according to the international standard DIN EN ISO 9001.

7 External monitoring by DIN CERTCO

7.1 General information

An essential part of the certification is the continuous monitoring of the certified product during the entire duration of the certificate. The monitoring by DIN CERTCO during the duration of the certificate takes place 2 times.

DIN CERTCO verifies and evaluates the conformity of the product with the requirements laid down in the certification scheme as well as the effectiveness of the quality assurance as per section 6.1.

7.2 Monitoring in the market

Monitoring in the market by DIN CERTCO is used to determine whether the manufacturing conditions for continuous conformity of the products with the requirements of section 3 are met. In the course of the monitoring, representative samples are taken from the trade. The sample quantity is determined in accordance with the provisions of section 4.3 of the certification scheme. The test scope is defined in section 4.4.

If possible, monitoring in the market is unannounced and must be carried out at least once a year for each certified product.

The samples taken are tested by a test laboratory recognized by DIN CERTCO. They should correspond to the average of production. Sampling is carried out on the entire sales article of the certificate holder in the market.

In order to be able to identify the samples of certified product in the market, DIN CERTCO must have an information on whether the samples remain in the retail trade so that samples

of the certified product that are on the market can be taken. This information can be available to DIN CERTCO as a list or on request.

If the results of the test are not sufficient, the certificate holder must be notified without delay. The scope of additional measures to meet all requirements must then be defined between the certification body and the certificate holder. If the holder of the certificate is unable to implement the required measures, the procedure is interrupted and the certificate suspended. If the certificate holder fails to comply with the request or fails to comply with the deadline, or the removal of defect cannot be proved again, the certificate will be expired.