Certification programme ZP 0800_EU of DVGW CERT GmbH, Bonn

Conformity assessment of drinking water hygiene suitability according to the European Drinking Water Directive (EU) 2020/2184 and Modules B and C of Decision No. 768/2008/EC

English translation – only the German document version is legally binding

1 Certification procedure

Products Water, European Drinking Water Directive (EU) 2020/2184

2 Accreditation

DVGW CERT GmbH is currently undergoing the accreditation process at the German Accreditation Body (DAkkS) in Berlin.

3 Notification

DVGW CERT GmbH is aiming notification for the European procedure.

4 Certification mark

DVGW CERT conformity mark for hygiene

Registration number scheme: HW-0851DS0001

HW = DVGW CERT conformity mark for hygiene,
0851 = Product code, DS =2027, 0001 = Serial number

5 Type of certificate

Issuance of an EU-type examination certificate for hygiene with a term of 5 years according to the European Drinking Water Directive (EU) 2020/2184 and Module B of Decision No. 768/2008/EC. The certificates will be issued after DVGW CERT GmbH has been designated as a notified body, at the earliest from January 2027.

6 Scope

This certification program describes the conformity assessment of products that come into contact with water intended for human consumption, based on an EU-type examination according to Module B of the Decision No. 768/2008/EC, as required by Delegated Regulation (EU) 2024/370.

The conformity assessment applies to products with a conversion factor (Fc < 0.4 d/dm) in risk group RG3 or RG4 made of organic materials, cementitious materials, enamels, ceramic materials and other inorganic materials including glass, as well as to products in product groups C or D made of metallic materials.

The following table contains the product codes within the scope of the certification program for the classification of products and components.

Product group	Product code	Product type
Hygienic suitability according to Module B of Decision No. 768/2008/EC	0851	Metal components, product groups C and D
	0852	Plastic components, risk group RG3
	0853	Organic coatings, risk group RG3
	0854	Elastomeric components, risk group RG3
	0855	Components made of thermoplastic elastomers (TPE), risk group RG3
	0856	Components made of silicones, risk group RG3
	0857	Enamelled components, risk group RG3
	0858	Ceramic components, risk group RG3
	0859	Cement-bonded linings, risk group RG3
	0860	Lubricants, risk group RG3
	0890	Glass components, risk group RG3
	0882	Plastic components, risk group RG4
	0883	Organic coatings, risk group RG4
	0884	Components made of elastomers, risk group RG4
	0885	Components made of thermoplastic elastomers, risk group RG4
	0886	Components made of silicones, risk group RG4
	0887	Enamelled components, risk group RG4
	0888	Ceramic components, risk group RG4
	0889	Cement-bonded linings, risk group RG4

7 Testing laboratories

Testing laboratories accredited according to EN ISO/IEC 17025 for the test principles specified in Implementing Decision (EU) 2024/368 and contractually bound to DVGW CERT GmbH.

8 Requirements

For materials and substances that come into contact with water intended for human consumption, the minimum hygiene requirements of Article 11 of the European Drinking Water Directive (EU) 2020/2184 apply. The criteria for passing the tests required in Implementing Decision (EU) 2024/368 must be met.

9 Tests

The drinking water hygiene tests are specified in Implementing Decision (EU) 2024/368 for each material depending on the risk and product groups. The manufacturer commissions a testing laboratory according to Chapter 7 of this certification program to carry out the type test.

9.1 Testing of final organic materials

9.1.1 Formulation review

The manufacturer must disclose the formulation to the certification body for products or components of composite products that fall into risk group RG1, RG2 and RG3. The starting substances listed in the formulation must correspond to the approved starting substances in Annex I of the European positive lists (EU) 2024/367. Unlisted starting substances, their impurities or reaction and degradation products may be permitted if concentrations of 0.1 µg/L in drinking water are not exceeded at the consumer's tap (see 2.2.3. in (EU) 2024/368). In addition, the relevant substances to be analysed in the migration water are determined in the formulation review.

Documented information on the formulation is subject to confidentiality. Changes to the formulation must be reported to the certification body without delay.

Note: It is advisable to carry out the type test according to Module B only after a positive formulation review.

9.1.2 Type testing (hygiene) of organic materials

The tests specified in Table 1 must be carried out as type test. The relevant requirement criterion for passing the tests according to Implementing Decision (EU) 2024/368 must be met. The migration test must be carried out in cold-water (23 °C ± 2 °C) with chlorinated and unchlorinated test water. If higher temperatures are applicable to the product, the migration test must be carried out additionally with unchlorinated warm (60 °C ± 2 °C) or hot water (85 °C ± 2 °C).

No.	Test	Standard	Comment
1	Migration test	Preparation of migration water for testing: - relevant substances, unexpected substances and TOC according to a) EN 12873-1:2014 for factory-made products b) EN 12873-1:2014 for locally manufactured materials - Odour and taste, colour and turbidity according to EN 1420:2016	
1.1	GC-MS screening	EN 15768 and EN 12873-1 or EN 12873-2	Screening for unexpected substances in cold-water
1.2	Relevant substances	according to formulation, EN 12873-1 or EN 12873-2	For RG1, RG2 and RG3: starting materials of the formulation, impurities, degradation or reaction products, (see 2.2.2 in (EU) 2024/368)
1.3	TOC	EN 1484 and EN 12873-1 or EN 12873-2	Total organically bound carbon
1.4	Odour	EN 1622 and EN 1420	Threshold Odour Number, TON
1.5	Taste	EN 1622 and EN 1420	Threshold Flavour Number, TFN
1.6	Colour	EN ISO 7887 and EN 1420	Method C
1.7	Turbidity	EN ISO 7027-1 and EN 1420	Nephelometry
1.8	Modelling or complete mass transfer	CEN/TR 16364 or equivalent	Alternative to migration testing (1.2) of the relevant substances
2	Promotion of the proliferation of microorganisms (EMG)	EN 16421	Method 1 or 2
3	Residual content of substances in the product	according to formulation	Starting materials with restrictions on maximum residual content (QM/QMA) in the European positive lists (EU) 2024-367

Table 1: Type test of final organic materials according to Annex I of (EU) 2024/368

9.2 Type testing of metallic materials

9.2.1 Composition review

The manufacturer must disclose the composition of the metallic material to the certification body. Solders, coatings, impregnations or organic coatings used must also be disclosed. The composition of the metallic material and its coatings must comply with the approved compositions in Annex II of the European positive lists (EU) 2024/367 and the referenced material standard. Restrictions of metallic materials in terms of specific product groups must be observed.

Changes to the composition must be reported to the certification body without delay.

9.2.2 Type test (hygiene) s of metallic materials

The tests specified in Table 2 must be carried out as type test. The relevant requirement criterion for passing the tests must be met according to Implementing Decision (EU) 2024/368.

No	Test	Comment
1	Verification of the supplier	Test certificate according to DIN EN 10204-2.2 with metal analysis
2	Testing of the metal composition of the material on the product	Metal analysis by an accredited testing laboratory
3	Testing of the composition of the metal coating, if applicable	Metal analysis by an accredited testing laboratory
4	Testing of the release of relevant substances from products with a metal coating, if applicable	Residues on the surface of the product due to galvanic or electrolytic coating processes (see EUPL Nos. 1680 – 1682)
5	Testing for the release of organic substances from products with an organic coating or impregnation, if applicable	Residues from organic substances used in the application of the coating, tests according to Table 1

Table 2: Type test of final metallic materials according to Annex II of (EU) 2024/368

9.3 Tests of final cementitious materials

9.3.1 Formulation review

The manufacturer must disclose the formulation to the certification body for products or components of composite products that fall into risk group RG1, RG2 and RG3. The constituents of the cement and the starting substances of organic materials listed in the formulation must comply with the approved constituents in Annex III and the starting substances in Annex I of the European positive lists (EU) 2024/367. In addition, the relevant substances to be analysed in the migration water are determined in the formulation review.

Documented information on the formulation is subject to confidentiality. Changes to the formulation must be reported to the certification body without delay.

Note: It is advisable to carry out the type test (Module B) only after a positive formulation test.

9.3.2 Type test (hygiene) for cement-bound materials

The tests specified in Table 3 must be carried out as type test. The relevant requirement criterion for passing the tests according to Implementing Decision (EU) 2024/368 must be met. The migration test must be carried out in cold-water (23 °C ± 2 °C) with chlorinated and unchlorinated test water. If higher temperatures are applicable to the product, the migration test must be carried out additionally with unchlorinated warm (60 °C ± 2 °C) or hot water (85 °C ± 2 °C).

No.	Test	Standard	Comment
1	Migration test	Preparation of migration water for testing: - Odour, taste, colour, turbidity and TOC according to 3.1.1.i) and - relevant substances, other relevant parameters and unexpected substances according to 3.1.1.iii) of Implementing Decision (EU) 2024/368	
1.1	GC-MS screening	EN 15768	Screening for unexpected substances in cold-water
1.	Relevant substances and other relevant parameters	according to formulation	For RG1, RG2 and RG3: starting substances of the formulation, impurities, degradation or reaction products, ... (see 2.2.2 in (EU) 2024/368)
1.	TOC	EN 1484	Total organic carbon
1.4	Odour	EN 1622	Threshold Odour Number, TON
1.5	Taste	EN 1622	Threshold Flavour Number, TFN
1.6	Colour	EN ISO 7887	Method C
1.7	Turbidity	EN ISO 7027-1	Nephelometry
1.8	Modelling	CEN/TR 16364 or equivalent	Alternative to migration testing (1.2) of the relevant substances
2	Promotion of the proliferation of microorganisms (EMG)	EN 16421	Method 1 or 2, provided that organic components are used in accordance with the formulation

Table 3: Type test of final cementitious according to Annex III of (EU) 2024/368

9.4 Testing of enamels and other glass materials, ceramic materials and other inorganic materials

9.4.1 Composition review

The manufacturer must disclose the composition of the final materials for risk groups RG1 to RG4 to the certification body. The lead and cadmium content must be specified (requirement < 0.02% m/m). The composition must comply with the approved compositions in Annex IV of the European Positive Lists (EU) 2024/367. Restrictions in terms of specific product groups must be observed. In addition, the relevant substances to be analysed in the migration water are determined in the composition review.

Documented information on the composition is subject to confidentiality. Changes to the composition must be reported to the certification body without delay.

Note: It is advisable to carry out the type test according to Module B only after a positive formulation review.

9.4.2 Type test (hygiene) of enamels and other glass materials, ceramic materials and other inorganic materials

The tests specified in Table 4 must be carried out as type test. The relevant requirement criterion for passing the tests according to Implementing Decision (EU) 2024/368 must be met. The migra-

tion test must be carried out in cold-water (23 °C ± 2 °C) and, if the product is used at higher temperatures, additionally in warm (60 °C ± 2 °C) or hot water (85 °C ± 2 °C) with unchlorinated test water. If a PAH analysis is required[1] , the cold-water test (23 °C ± 2 °C) is also carried out with chlorinated test water.

No.	Test	Standard	Comment
1	Migration test	Production of migration waters for testing relevant substances according to EN 12873-1	
1.	Relevant substances	according to composition and EN 12873-1	For RG1, RG2 and RG3

Table 4: Type test of enamels and other glass materials, ceramic materials and other inorganic materials according to Annex IV of (EU) 2024/368

10 Surveillance

10.1 General

It must be ensured that the product remains suitable for drinking water applications during manufacture, assembly, storage and transport.

10.2 Factory production control (FPC)

The manufacturer shall plan and carry out a production control according to Module C of Decision No. 768/2008/EC to ensure that the manufacturing process and its surveillance guarantee the conformity of the manufactured products with the approved design of the EC type examination certificate and that the product complies with the requirements of the legislation applicable to them.

10.3 Surveillance audit (3rd party control)

An annual surveillance audit to assess the manufacturer's quality assurance system, including the sampling of products for audit test, is not required in Module C of Decision No. 768/2008/EC. Instead, the type test (hygiene) must be repeated every 5 years.

11 Marking

The marking requirement for products, their packaging and accompanying documents according to Delegated Regulation (EU) 2024/371 shall apply.

1) PAH – Polycyclic aromatic hydrocarbons

12 References

In the case of undated references, the current edition of the following documents applies.

- <40016_EU> Rules of procedure for the implementation of the conformity assessment procedure according to EU Drinking Water Directive 2020/2184 and Delegated Regulation (EU) 2024/370, October 2025
- <51000_EU> Certification programme ZP 1000_EU dated 15 October 2025
  Conformity assessment of suitability for drinking water hygiene according to European Drinking Water Directive (EU) 2020/2184 and Modules B and D of Decision No. 768/2008/EC
- Directive (EU) 2020/2184 of the European Parliament and of the Council dated 16 December 2020 on the quality of water intended for human consumption (recast), European Drinking Water Directive (EU-DWD)
- Decision No 768/2008/EC of the European Parliament and of the Council dated 9 July 2008 on a common framework for the marketing of products
- Commission Implementing Decision (EU) 2024/367 dated 23 January 2024:
  European positive lists of starting substances, compositions and constituents authorised for use in the manufacture of materials or products that come into contact with water intended for human consumption
- Commission Implementing Decision (EU) 2024/368 dated 23 January 2024:
  Procedures and methods for testing and accepting final materials as used in products that come into contact with water intended for human consumption
- Commission Delegated Regulation (EU) 2024/370 dated 23 January 2024:
  Conformity assessment procedures for products that come into contact with water intended for human consumption and the rules for the designation of conformity assessment bodies involved in those procedures
- Commission Delegated Regulation (EU) 2024/371 dated 23 January 2024:
  Harmonised specifications for the marking of products that come into contact with water intended for human consumption
- DIN EN 1420:2016-05
  Influence of organic materials on water intended for human consumption - Determination of odour and flavour assessment of water in piping systems; German version EN 1420:2016
- DIN EN 1484:2019-04
  Water analysis - Guidelines for the determination of total organic carbon (TOC) and dissolved organic carbon (DOC); German version EN 1484:1997
- DIN EN 10204:2005-01
  Metallic products - Types of inspection documents; German version EN 10204:2004
- DIN EN 12873-1:2014-09
  Influence of materials on water intended for human consumption - Influence due to migration - Part 1: Test method for factory-made products made from or incorporating organic or glassy (porcelain/vitreous/enamel) materials; German version EN 12873-1:2014

- DIN EN 12873-2:2022-02
  Influence of materials on water intended for human consumption - Influence due to migration - Part 2: Test method for non-metallic and noncementitious site-applied materials; German version EN 12873-2:2021
- DIN EN 15768:2015-05
  Influence of materials on water intended for human consumption - GC-MS identification of water leachable organic substances; German version EN 15768:2015
- DIN CEN/TR 16364:2012-09 / DIN SPEC 19811:2012-09
  Influence of materials on water intended for human consumption - Influence due to migration - Prediction of migration from organic materials using mathematical modelling; German version CEN/TR 16364:2012
- DIN EN 16421:2015-05
  Influence of materials on water for human consumption - Enhancement of microbial growth (EMG); German version EN 16421:2014
- DIN EN ISO 7027-1:2016-11
  Water quality - Determination of turbidity - Part 1: Quantitative methods (ISO 7027-1:2016); German version EN ISO 7027-1:2016
- DIN EN ISO 7887:2012-04
  Water quality - Examination and determination of colour (ISO 7887:2011); German version EN ISO 7887:2011

13 Period of validity

This certification programme is valid from 15 October 2025.