

	Certification programme ZP 1000_EU Conformity assessment of drinking water hygienic suitability according to modules B and D		51000_EU-00-E-GB	
			Doc. type	ZP
			Author	DVGW CERT GmbH
			Status	15.10.2025

Certification programme ZP 1000_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 D of** **Decision No. 768/2008/EC**

English translation – only the German document version is legally binding

	Certification programme ZP 1000_EU Conformity assessment of drinking water hygienic suitability according to modules B and D		51000_EU-00-E-GB	
			Doc. type	ZP
			Author	DVGW CERT GmbH
			Status	15.10.2025

1	Certification procedure	3
2	Accreditation	3
3	Notification	3
4	Certification mark	3
5	Type of certificate	3
6	Scope and product codes	3
7	Testing laboratories	4
8	Requirements	5
9	Initial inspection and sampling	5
10	Tests	5
10.1	Testing of final organic materials	5
10.1.1	Formulation review	5
10.1.2	Type testing (hygiene) of organic materials	5
10.2	Type testing of metallic materials	6
10.2.1	Composition review	6
10.2.2	Type test (hygiene) of metallic materials	7
10.3	Testing of final cementitious materials	7
10.3.1	Formulation assessment	7
10.3.2	Type test (hygiene) of cement-bound materials	7
10.4	Testing of enamels and other glass materials, ceramic materials and other inorganic materials	8
10.4.1	Composition review	8
10.4.2	Type test (hygiene) of enamels and other glass materials, ceramic materials and other inorganic materials	9
11	Surveillance	9
11.1	General	9
11.2	Factory production control (FPC)	9
11.3	Surveillance audit (3 rd party control)	9
12	Marking	10
13	References	10
14	Period of validity	11

	Certification programme ZP 1000_EU Conformity assessment of drinking water hygienic suitability according to modules B and D		51000_EU-00-E-GB	
			Doc. type	ZP
			Author	DVGW CERT GmbH
			Status	15.10.2025

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-1051DS0001

HW = DVGW CERT conformity mark for hygiene,
 1051 = 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 and Module D of Decision No. 768/2008/EC. The certificates will be issued after DVGW CERT GmbH has been designated as a notified body from January 2027.

6 Scope and product codes

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 and quality assurance according to Module D of the Delegated Regulation (EU) No 768/2008/EC, as required by the Delegated Regulation (EU) 2024/370.

The conformity assessment applies to products with a conversion factor ($F_c \geq 0.4 \text{ d/dm}$) in risk group RG1 or RG2 made of organic materials, cementitious materials, enamels, ceramic materials and other inorganic materials including glass, as well as to products in product group A or B made of metallic materials.

	Certification programme ZP 1000_EU Conformity assessment of drinking water hygienic suitability according to modules B and D		51000_EU-00-E-GB	
			Doc. type	ZP
			Author	DVGW CERT GmbH
			Status	15.10.2025

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 and Module D of the Decision No. 768/2008/EC	1051	Pipes and hoses made of metallic materials, product group A, RG1
	1052	Products and components made of metallic materials, product group B, RG2
	1053	Tubes and hoses made of organic materials, product group A, RG1
	1054	Products and components made of organic materials, product group B, RG2
	1055	Organic coatings, factory-made, product group A, RG1
	1056	Tubes, tube linings and hoses made of elastomers, product group A, RG1
	1057	Fittings, valves and apparatus made of elastomers, product group B, RG2
	1058	Pipes, pipe linings and hoses made of thermoplastic elastomers (TPE), product group B, RG1
	1059	Fittings, valves and apparatus made of thermoplastic elastomers (TPE), product group B, RG2
	1060	Pipes and hoses made of silicones, product group A, RG1
	1061	Products and components made of silicones, product group B, RG2
	1062	Enamelled products and components, product group A, RG1
	1063	Enamelled products and components, product group B, RG2
	1064	Components made of ceramic materials, product group A, RG1
	1065	Components made of ceramic materials, product group B, RG2
	1066	Components made of glass, product group A, RG1
	1067	Components made of glass, product group B, RG2
	1068	cementitious linings, product group A, RG1
	1070	Storage systems (reservoirs), water volume < 10 l
	1071	Storage systems (reservoirs), water volume ≥ 10 l
	1072	Storage systems (reservoirs) in water supply
	1074	Composite product, product group A, RG1
	1075	Composite product, product group B, RG2

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.

	Certification programme ZP 1000_EU Conformity assessment of drinking water hygienic suitability according to modules B and D		51000_EU-00-E-GB	
			Doc. type	ZP
			Author	DVGW CERT GmbH
			Status	15.10.2025

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 the Implementing Decision (EU) 2024/368 must be met.

9 Initial inspection and sampling

According to Module D of Decision No. 768/2008/EC, an initial inspection of the manufacturing facility is required to assess the quality assurance system and to take test samples for type test. The sampling of test samples must be generally carried out under audit conditions. The manufacturer shall provide the inspector with a sufficient number of samples required for type test.

10 Tests

The drinking water hygiene tests are specified in Implementing Decision (EU) 2024/368 for specific materials 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 tests.

10.1 Testing of final organic materials

10.1.1 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.

10.1.2 Type testing (hygiene) of organic materials

The type tests must be carried out as specified in Table 1. 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).

	Certification programme ZP 1000_EU Conformity assessment of drinking water hygienic suitability according to modules B and D		51000_EU-00-E-GB	
			Doc. type	ZP
			Author	DVGW CERT GmbH
			Status	15.10.2025

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 12873-2:2021 for locally manufactured materials - Odour and taste, colour and turbidity according to EN 1420:2016	
1.1	GC-MS screening	EN 15768:2015 and EN 12873-1:2014 or EN 12873-2:2021	Screening for unexpected substances in cold water
1.2	Relevant substances	according to formulation, EN 12873-1:2014 or EN 12873-2:2021	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 1484:1997 and EN 12873-1:2014 or EN 12873-2:2021	Total organically bound carbon
1.4	Odour	EN 1622:2006 and EN 1420:2016	Threshold Odour Number, TON
1.5	Taste	EN 1622:2006 and EN 1420:2016	Threshold Flavour Number, TFN
1.6	Colour	EN ISO 7887:2011 and EN 1420:2016	Method C
1.7	Turbidity	EN ISO 7027-1:2016 and EN 1420:2016	Nephelometry
1.8	Modelling or complete mass transfer	CEN/TR 16364:2012 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

10.2 Type testing of metallic materials

10.2.1 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 in composition must be reported to the certification body without delay.

	Certification programme ZP 1000_EU Conformity assessment of drinking water hygienic suitability according to modules B and D		51000_EU-00-E-GB	
			Doc. type	ZP
			Author	DVGW CERT GmbH
			Status	15.10.2025

10.2.2 Type test (hygiene) 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 10204-3.1 with metal analysis
2	Testing of the metal composition of the material on the product	Metal analysis ¹⁾
3	Testing of the composition of the metal coating, if applicable	Metal analysis ¹⁾
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 ²⁾ 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

10.3 Testing of final cementitious materials

10.3.1 Formulation assessment

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.

10.3.2 Type test (hygiene) of cementitious 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

1) The analytical methods must be validated and documented in accordance with EN ISO/IEC 17025 or equivalent internationally recognised standards by a testing body that is contractually bound to DVGW CERT GmbH and listed as a subcontractor.

2) EUPL = European Positive List (EU) 2024/367

	Certification programme ZP 1000_EU Conformity assessment of drinking water hygienic suitability according to modules B and D		51000_EU-00-E-GB	
			Doc. type	ZP
			Author	DVGW CERT GmbH
			Status	15.10.2025

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 15768:2015	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 1484:1997	Total organic carbon
1.4	Odour	EN 1622:2006	Threshold Odour Number, TON
1.5	Taste	EN 1622:2006	Threshold Flavour Number, TFN
1.6	Colour	EN ISO 7887:2011	Method C
1.7	Turbidity	EN ISO 7027-1:2016	Nephelometry
1.8	Modelling	CEN/TR 16364:2012 or equivalent	Alternative to migration testing (1.2) of the relevant substances
2	Promotion of the proliferation of microorganisms (EMG)	EN 16421:2015	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

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

10.4.1 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.

	Certification programme ZP 1000_EU Conformity assessment of drinking water hygienic suitability according to modules B and D		51000_EU-00-E-GB	
			Doc. type	ZP
			Author	DVGW CERT GmbH
			Status	15.10.2025

10.4.2 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 migration test must be carried out in cold-water ($23\text{ °C} \pm 2\text{ °C}$) and, if the product is used at higher temperatures, additionally in warm ($60\text{ °C} \pm 2\text{ °C}$) or hot water ($85\text{ °C} \pm 2\text{ °C}$) with unchlorinated test water. If a PAH analysis is required³, the cold-water test ($23\text{ °C} \pm 2\text{ °C}$) 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 12873-1:2014	
1.	Relevant substances	according to composition and EN 12873-1:2014	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

11 Surveillance

11.1 General

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

11.2 Factory production control (FPC)

The manufacturer shall plan and carry out its own production control to enable a reliable assessment of the production. According to Module D of Decision No. 768/2008/EC, surveillance of the production process by the manufacturer is based on a quality assurance system. The quality assurance system must meet the requirements of 3.2, Module D of Decision No. 768/2008/EC.

11.3 Surveillance audit (3rd party control)

To assess the quality assurance system and the surveillance of the production process by the manufacturer, an annual inspection is carried out at the manufacturer's production facility according to Module D of Decision No. 768/2008/EC. The inspection includes the sampling of products for audit testing.

The surveillance audit is carried out by the certification body or by an inspector authorised by the certification body.

³) PAH – Polycyclic aromatic hydrocarbons

	Certification programme ZP 1000_EU Conformity assessment of drinking water hygienic suitability according to modules B and D		51000_EU-00-E-GB	
			Doc. type	ZP
			Author	DVGW CERT GmbH
			Status	15.10.2025

12 Marking

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

13 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
- <50800_EU> Certification programme ZP 1000_EU of 15 October 2025
Conformity assessment of drinking water hygiene suitability according to the 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

	Certification programme ZP 1000_EU Conformity assessment of drinking water hygienic suitability according to modules B and D		51000_EU-00-E-GB	
			Doc. type	ZP
			Author	DVGW CERT GmbH
			Status	15.10.2025

- 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 non-cementitious 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

14 Period of validity

This certification programme is valid from 15. October 2025.