

	Certification Programme ZP 0800 Attestation of conformity of the drinking water hygienic suitability on the basis of a Type testing	50800-05-P-GB	
		Doc. type	ZP
		Author	DVGW CERT GmbH
		Status	07.10.2024

Certification Programme ZP 0800 **of DVGW CERT GmbH, Bonn**

National **Attestation of Conformity of** **the hygienic Suitability of Drinking Water** **on the Basis of a Type Test**

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1 Certification procedure

Products Water national (non-harmonised area)

2 Accreditations

An accreditation No. D-ZE-16028-01 exists for the procedure at German accreditation body (die Deutsche Akkreditierungsstelle GmbH) (DAkkS), Berlin.

3 Certification mark

DVGW CERT Hygiene conformity mark



Registration number scheme: HW-0801DN0001

HW = DVGW CERT hygiene conformity mark,
 0801 = product code, DN =2022, 0001 = serial no.


4 Type of certificate and test procedure

Attestation of conformity (5-year term).

5 Scope

This ZP applies to the attestation of conformity of the drinking water hygiene suitability of products, components or component groups on the basis of a type test as described in the UBA recommendation "Attestation of conformity of the drinking water hygiene suitability of products". This simplified attestation of conformity can only be issued for components in the product group P2 ($F_c < 0.5 \text{ d/dm}$) can be issued.

Product group	Product code	Product type
Hygienic suitability on the basis of a type test	0801	Metal components, product group C and D
Hygienic suitability on the basis of a type test	0802	Plastic components, product group P2
Hygienic suitability on the basis of a type test	0803	Organic coatings, product group P2
Hygienic suitability on the basis of a type test	0804	Elastomer components
Hygienic suitability on the basis of a type test	0805	Components made from thermoplastic elastomers (TPE)
Hygienic suitability on the basis of a type test	0806	Components made of silicones, *)
Hygienic suitability on the basis of a type test	0807	Enamelled components, product group P2
Hygienic suitability on the basis of a type test	0808	Ceramic components, product group P2
Hygienic suitability on the basis of a type test	0809	Cement-bonded linings, *)
Hygienic suitability on the basis of a type test	0810	Lubricants, product group P2
Hygienic suitability on the basis of a type test	0820	Mixtures of organic materials, product group P2 **)
Hygienic suitability on the basis of a type test	0821	Intermediate products of organic materials, product group P2 ***)
Hygienic suitability on the basis of a type test	0822	Precursors of organic materials, product group P2 ****)
Hygienic suitability on the basis of a type test	0840	Glass components, product group P2
Hygienic suitability on the basis of a type test	0831	Metal components, product group P3
Hygienic suitability on the basis of a type test	0832	Plastic components, product group P3
Hygienic suitability on the basis of a type test	0833	Organic coatings, product group P3
Hygienic suitability on the basis of a type test	0834	Elastomer components, product group P3
Hygienic suitability on the basis of a type test	0835	Components made of thermoplastic elastomers, product group P3
Hygienic suitability on the basis of a type test	0836	Components made of silicones, product group P3

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Product group	Product code	Product type
Hygienic suitability on the basis of a type test	0837	Enamelled components, product group P3
Hygienic suitability on the basis of a type test	0838	Ceramic components, product group P3
Hygienic suitability on the basis of a type test	0839	Cementitious linings, product group P3
Hygienic suitability on the basis of a type test	0891	Compliance with the nickel limit value
Hygienic suitability on the basis of a type test	0892	Nickel-free chrome-plated
Hygienic suitability on the basis of a type test	0893	Factory-brazed plate heat exchangers and plate heat exchangers

- *) Z. No assessment basis published yet!
(Assessment is based on information, guidelines and transitional recommendations of the UBA)
- **) z. e.g. glass fibre sizing
- ***) z. e.g. hardener of a coating
- ****) z. e.g. plastic granulates

6 Testing Laboratories


Testing laboratories accredited in accordance with EN ISO/IEC 17025 for the relevant test bases and contractually bound to DVGW CERT GmbH to carry out the test methods listed in the UBA-BWGL and UBA guidelines.

7 Requirements

General requirements:

The materials that come into contact with drinking water must be hygienically safe and must not impair the quality of the drinking water as specified in the Drinking Water Ordinance.

The drinking water hygiene requirements are defined on a material-specific basis.


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Requirement	Proof of hygienic suitability
Metallic materials	
UBA Metal Assessment basis	Attestation of conformity on the basis of a type test For product group C and D according to BWGL metals based on works certificate in accordance with EN 10204-2.2 with metal analysis
Organic materials	
UBA KTW-BWGL	Attestation of conformity on the basis of a type test based on test reports according to UBA KTW-BWGL and DIN EN 16421, method 1 or 2 (*) and WPK **)
UBA (Elastomer Guideline) and transitional regulation for the hygienic assessment of elastomers in contact with drinking water	Attestation of conformity on the basis of a type test or Test certificate in each case based on test reports acc. Elastomer guideline and DIN EN 16421, method 1 or 2 (*)
UBA recommendation for thermoplastic elastomers (TPE transition recommendation)	Attestation of conformity on the basis of a type test or test certificate, in each case based on test reports in accordance with the following. TPE transition recommendation and DIN EN 16421, method 1 or 2 (*)
UBA silicone transition recommendation	Attestation of conformity on the basis of a type test or Test certificate in each case based on test reports acc. Silicone transition recommendation and DIN EN 16421, method 1 or 2 (*)
Enamels and ceramic materials	
BWGL enamel/ceramic	Attestation of conformity on the basis of a type test based on test reports in accordance with BWGL enamel/ceramics and WPK ***)
Cement-bonded materials	
DVGW W 347	Test certificate according to DVGW W 347 and if organic components are included test certificate according to DVGW W 270

*) Test report according to DVGW W 270 permissible

**) WPK consisting of incoming goods inspection, checking the conformity of raw materials and end products

***) WPK consisting of incoming goods inspection and regular inspection of the composition of the composition of the manufactured products

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Type testing

7.2.1 Recipe evaluation

The manufacturer must make the formulation available to the certification body for review. The documents are subject to confidentiality.

The certification body must be informed immediately of any changes to the formulation.

It is advisable to carry out the actual type test (migration tests and microbial growth test) only after a positive formulation test.

7.2.1.1 Formulation evaluation of mixtures, intermediates and precursors for the production of organic materials

The formulation evaluation of a mixture, intermediate or preliminary product represents the possibility of simplifying the formulation evaluation of the end products. In this case, sensitive formulation information only needs to be fully disclosed to one certification body. However, a prerequisite for this is that the manufacturer of the mixture, intermediate or precursor allows its certification body to communicate the relevant substances to the certification body of the end product. The relevant substances are those substances that are to be tested in the migration test of the end product. No migration test is required for mixtures and intermediate products.

7.2.2 Migration check


The manufacturer must provide the test laboratory with a sufficient number of representative test specimens required for type testing. The type test must be carried out on a material-specific basis in accordance with the applicable UBA BWGL or UBA guidelines/recommendations. The requirements described for this point in the UBA recommendation on attestation of conformity must be observed.

7.2.2.1 Migration testing of preliminary products (e.g. plastic granulates)

In addition to the testing of the plastic granulate, the testing of the granulate manufacturer's manufactured test specimens of product group P2. In the latter case, the test specimens in the presence of an auditor appointed by the certification body in accordance with the processing recommendations of the granulate manufacturer. This procedure also applies to repeat tests as part of re-certification every 5 years.

Microbiological testing in accordance with DIN EN 16421 (or DVGW W 270) can be carried out on representative samples.

Test specimens in accordance with 6.4 of the KTW-BWGL for the various components (except pipes). The evaluation of the test report according to DIN EN 16421 with the requirements according to 5.6 of the KTW-BWGL is part of the evaluation of the preliminary product.

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7.2.3 Recognition of still valid hygiene test reports based on the previous UBA guidelines and DVGW W 270

According to the transitional regulation KTW-BWGL, it is possible to use test reports based on the KTW, coating and lubricant guidelines and DVGW W 270 as proof of the drinking water hygiene suitability of the products in contact with drinking water until the expiry of the validity (usually 5 years after the date of issue).

The following conditions apply within the scope of our attestation of conformity:

- Neither the recipe nor the production process may have changed.
- The hygiene testing laboratory that issued the initial report (approval test) confirms in writing to DVGW CERT GmbH the conformity of the test report(s) with regard to the requirements of the UBA (KTW-BWGL).

8 Surveillance

General information

The surveillance tests to be carried out are described in the tables in Annex A.

8.2 Factory production control (FPC)

The manufacturer must carry out its own production checks in such a way that a reliable assessment of production is possible. A functioning QM system can be used for this purpose.


The type and scope of the WPK measures must be specified for each material (see tables in Appendix A).

8.3 Surveillance test (external surveillance; FÜ)

With the exception of the conformity assessment of a preliminary product, such as a plastic granulate, external surveillance is not required for this simplified procedure. Instead, the type test must be carried out every 5 years. In the case of preliminary products, the test specimens for type testing are manufactured and retested every 5 years in the presence of an authorised representative of the certification body.

9 Labelling


Labelling on the product with regard to this ZP is not intended.

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10 Other applicable documents

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

- Geschäftsordnung zur Zertifizierung von Produkten im nicht harmonisierten Bereich <40014>
- UBA Empfehlung Konformität: Stand 29. Juli 2021
Empfehlung Konformitätsbestätigung der trinkwasserhygienischen Eignung von Produkten
- UBA-Metallbewertungsgrundlage: Stand 21. Januar 2023
Bewertungsgrundlage für metallene Werkstoffe im Kontakt mit Trinkwasser des UBA (Metall-Bewertungsgrundlage)
- UBA KTW-BWGL: Stand 07. März 2022
Bewertungsgrundlage für Kunststoffe und andere organische Materialien in Kontakt mit Trinkwasser (KTW-BWGL) – Allgemeiner Teil
- UBA KTW-BWGL: Stand 07. März 2022
Anlagen der Bewertungsgrundlage für Kunststoffe und andere organische Materialien im Kontakt mit Trinkwasser (KTW-BWGL) – Polymerspezifischer Teil
- UBA-Information: Stand 07. März 2022
Übergang von UBA-Leitlinien zur Bewertungsgrundlage für Kunststoffe und andere organische Materialien im Kontakt mit Trinkwasser (Übergangsregelung KTW-BWGL)
- UBA Emails und Keramik-BWGL: Stand 17. Oktober 2023
Bewertungsgrundlage für Emails und keramische Werkstoffe im Kontakt mit Trinkwasser
- UBA Elastomer Leitlinie: Stand 16. März 2016
Leitlinie zur hygienischen Beurteilung von Elastomeren im Kontakt mit Trinkwasser: 2018 und Übergangsregelung vom 23. Februar 2016
Aktualisierte Positivliste (Anlage 1 Teil 1) zur Elastomer Leitlinie: Stand 13.07.18
- UBA Empfehlung TPE: Stand 11. März 2019
Empfehlung zur hygienischen Beurteilung von Produkten aus Thermoplastischen Elastomeren in Kontakt mit Trinkwasser (TPE-Übergangsempfehlung)
- UBA Empfehlung Silikon: Stand 10. Oktober 2022
Übergangsempfehlung zur vorläufigen trinkwasserhygienischen Beurteilung von Silikonen im Kontakt mit Trinkwasser (Silikon-Übergangsempfehlung)
- DVGW Arbeitsblatt W 347: Ausgabe Oktober 2023
Hygienische Anforderungen an zementgebundene Werkstoffe im Trinkwasserbereich
– Prüfung und Bewertung
- UBA Geringfügigkeits-Leitlinie: Stand 18. April 2011

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Empfehlung Beurteilung von Stoffen mit bestimmter technologischer Funktion und geringeren Einsatzmengen bei der Rezepturüberprüfung nach den Leitlinien des Umweltbundesamtes zur hygienischen Beurteilung von organischen Materialien im Kontakt mit Trinkwasser (Geringfügigkeits-Leitlinie)

- UBA Modellierungsleitlinie: Stand 07. Oktober 2008

Empfehlung Leitlinie zur mathematischen Abschätzung der Migration von Einzelstoffen aus organischen Materialien in das Trinkwasser (Modellierungsleitlinie)

- DIN EN 10204: Ausgabe Januar 2005

Metallische Erzeugnisse – Arten von Prüfbescheinigungen

- DIN EN 16421: Ausgabe Mai 2015

Einfluss von Materialien auf Wasser für den menschlichen Gebrauch – Vermehrung von Mikroorganismen

- DVGW Arbeitsblatt W 270: Ausgabe November 2007

Vermehrung von Mikroorganismen auf Werkstoffen für den Trinkwasserbereich – Prüfung und Bewertung

UBA guidelines valid until 01 March 2025:

- UBA Elastomerleitlinie: Stand 16. März 2016

Leitlinie zur hygienischen Beurteilung von Elastomeren im Kontakt mit Trinkwasser:2018 und Übergangsregelung vom 23. Februar 2016


Aktualisierte Positivliste (Anlage 1 Teil 1) zur Elastomerleitlinie: Stand 09. Juli 2021

- UBA Empfehlung TPE: Stand 11. März 2019

Empfehlung zur hygienischen Beurteilung von Produkten aus Thermoplastischen Elastomeren in Kontakt mit Trinkwasser (TPE-Übergangsempfehlung)

11 Period of validity

This certification programme is valid 07.10.2024 until further notice.

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12 Appendix

Table A.1: Scope of testing for type testing, in-house and external surveillance of metallic materials and components

Feature	Type testing	Self-surveillance (WPK)	External surveillance (FÜ)
Material composition	<p>Check whether material is listed on UBA metal list</p> <p>Checking the upstream supplier on the basis of their evidence (works certificate in accordance with DIN EN 10204-2.2 with metal analysis)</p> <p>Testing the metal composition of the test specimens sent to PL</p>	<p>Checking the upstream supplier on the basis of his Evidence</p> <p>(works certificate in accordance with DIN EN 10204-2.2 with metal analysis)</p> <p>In-house metal analysis on receipt of goods and in the case of remelting of alloys acc. to WPK</p>	<p>Not applicable every 5 years renewed type testing</p>

ZS = certification body

PL = Test laboratory


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Table A.2: *Scope of testing for type testing, in-house and external surveillance of factory-produced organic materials and components*

Feature	Recipe evaluation	Self-surveillance (WPK)	External surveillance (FÜ)
Material composition	<p>Disclosure of the recipe by the manufacturer</p> <p>Checking the recipe according to material-specific positive lists</p> <p>Checking the upstream supplier on the basis of their evidence</p>	<p>Checking the upstream supplier on the basis of his Evidence</p> <p>Testing the conformity of raw materials</p>	Not applicable every 5 years renewed type testing
Feature	Type testing	Self-surveillance (WPK)	External surveillance (FÜ)
Testing of hygienic parameters in accordance with KTW-BWGL	<p>Manufacturer sends test specimens in sufficient quantity to PL</p> <p>Performance of the complete tests according to KTW-BWGL including microbiological testing according to DIN EN 16421 procedure 1 or 2 (DVGW W 270)</p>	Manufacturer takes appropriate measures to ensure the conformity of the end product	Not applicable every 5 years renewed type testing

Recipe changes must be reported to the certification body and lead to a new evaluation of the recipe.

ZS = certification body

PL = Test laboratory


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Table A.3: Scope of testing for type testing, in-house and external surveillance of enamellers and enamel frit manufacturers

Feature	Recipe evaluation	Self-surveillance (WPK)	External surveillance (FÜ)
Material composition	<p>Disclosure of the recipe by the manufacturer of the enamel frit</p> <p>Checking the formulation according to the material-specific positive list</p> <p>Checking the upstream supplier on the basis of their evidence</p> <p>Review of processing instructions</p>	<p>Checking the upstream supplier on the basis of his Evidence</p> <p>Testing the conformity of raw materials</p> <p>Analysing the composition of the enamel frit (external audit if necessary)</p>	Not applicable every 5 years renewed type testing
Feature	Type testing	Self-surveillance (WPK)	External surveillance (FÜ)
Testing of hygienic parameters in accordance with enamel/ceramic BWGL	<p>Production of enamelled sample plates in accordance with the enamel manufacturer's processing instructions</p> <p>Sending the test specimens to PL</p> <p>Carrying out the complete tests according to enamel/ceramic BWGL</p>	<p>Checking the upstream supplier on the basis of his Evidence</p> <p>Testing the conformity of raw materials</p> <p>Analysis of the composition of the enamel frit and the enamelling (external audit if necessary)</p>	Not applicable every 5 years renewed type testing

Recipe changes must be reported to the certification body and lead to a new evaluation of the recipe.

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Table A.4: Scope of testing for type testing, in-house and external surveillance of manufacturers of ceramic materials and components

Feature	Recipe evaluation	Self-surveillance (WPK)	External surveillance (FÜ)
Material composition	Disclosure of the recipe by the manufacturer Checking the formulation according to the material-specific positive list Checking the upstream supplier on the basis of their evidence Review of processing instructions	Checking the upstream supplier on the basis of his Evidence Testing the conformity of raw materials Analysing the composition (external audit if necessary)	Not applicable every 5 years renewed type testing
Feature	Type testing	Self-surveillance (WPK)	External surveillance (FÜ)
Testing of hygienic parameters in accordance with enamel/ceramic BWGL	Send a sufficient number of test specimens to PL Carrying out the complete tests according to enamel/ceramic BWGL	Checking the upstream supplier on the basis of his Evidence Testing the conformity of raw materials Analysing the composition (external audit if necessary)	Not applicable every 5 years renewed type testing

Recipe changes must be reported to the certification body and lead to a new evaluation of the recipe.

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Table A.5: Scope of testing for formulation evaluation of mixtures and intermediates for the production of organic materials

Feature	Recipe evaluation	Self-surveillance (WPK)	External surveillance (FÜ)
Material composition	Disclosure of the recipe by the manufacturer Checking the recipe according to material-specific positive lists Checking the upstream supplier on the basis of their evidence	Checking the upstream supplier on the basis of his Evidence Testing the conformity of raw materials	Not applicable every 5 years renewed Recipe evaluation

Recipe changes must be reported to the certification body and lead to a new evaluation of the recipe.

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Table A.6: Scope of testing for formulation evaluation of precursors (e.g. plastic granulates) for the production of organic materials

Feature	Recipe evaluation	Self-surveillance (WPK)	External surveillance (FÜ)
Material composition	Disclosure of the recipe by the manufacturer Checking the recipe according to material-specific positive lists Checking the upstream supplier on the basis of their evidence	Checking the upstream supplier on the basis of his Evidence Testing the conformity of raw materials	Not applicable every 5 years renewed Recipe evaluation
Feature	Type testing	Self-surveillance (WPK)	External surveillance (FÜ)
Testing of hygienic parameters in accordance with KTW-BWGL	In the presence of an auditor, the manufacturer produces a sufficient quantity of test specimens of size P2 Performance of the complete tests according to KTW-BWGL including microbiological testing according to DIN EN 16421 procedure 1 or 2 (DVGW W 270)	Manufacturer takes appropriate measures to ensure the conformity of the end product	every 5 years renewed type testing

Recipe changes must be reported to the certification body and lead to a new evaluation of the recipe and, if necessary, to a new type test.

ZS = certification body

PL = Test laboratory

In case of doubt, the German document is the legally binding one.