

	Certification programme ZP 7412 Capillary solder fittings made of copper pipe in accordance with DIN EN 1254-1		57412-00-N-GB	
			Doc. type	ZP
			Author	DVGW CERT GmbH
			Status	05.12.2025

Certification programme ZP
“Zertifizierungsprogramm” 7412
of DVGW CERT GmbH, Bonn

Capillary solder fittings made of
copper pipe
in accordance with DIN EN 1254-1

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1 Certification procedure

Products Gas and water national

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 marks

DVGW resp. DIN-DVGW certification mark Products



Registration number scheme:

DW-7412DQ0001 resp. NW-7412DQ0001

DW = DVGW certification mark for water,

NW = DIN-DVGW certification mark for water,

7412 = product code, DQ = 2025, 0001 = consecutive no.

4 Type of certificate and test procedure

Type examination certificate (5-year term)

5 Scope

This type examination certificate applies to capillary solder fittings made of copper pipe in accordance with DIN EN 1254-1 for connecting copper pipes for gas and drinking water installations. It regulates the type examination as well as the internal and external monitoring of the fittings.

Product group	Product code	Product type
Capillary solder and transition fittings	7412	Capillary solder fitting made of copper pipe in accordance with DIN EN 1254-1

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.

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7 Requirements

7.1 Mechanical requirements:

The requirements of DIN EN 1254-1 apply.

7.2 Hygienic requirements:

The hygienic requirements within the scope of this certification programme are based on the "Appendix for certification programmes (ZP) for hygienic requirements for DVGW type certification of products and components in contact with drinking water".

The document is available on the DVGW CERT GmbH website in the "Certification Programmes" section.

7.3 Type examination (type testing)

Type testing in accordance with DIN EN 1254-1, Section 6.2

8 Surveillance

The provisions described in the Rules of Procedure (GO - Geschäftsordnung) apply (section "Surveillance procedure"). The "Control testing" procedure must be used for this certification program.

8.1 Factory production control (WPK – Werkseigene Produktionskontrolle) by the manufacturer (self- surveillance)

The manufacturer must carry out and document its own production control tests and production control tests in such a way that a reliable assessment of production is possible. The type and scope of WPK tests are specified in Table 7 of DIN EN 1254-1. In addition, valid material-specific "hygiene conformity certificates" in accordance with section 7.2 of this ZP must be available for the materials and protective coatings used in contact with drinking water. The results of the tests must be kept for 10 years.

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8.2 Surveillance test (external surveillance)

External surveillance must be carried out every 12 months on site at the manufacturer's production facility by an authorised inspector from the testing centre. The inspector is appointed by the certificate holder.

The purpose of external surveillance is

to check the manufacturer's self-surveillance (WPK) of the manufacture of certified products on the basis of its organisation and records,

to assess the conformity of the manufactured product with the original type
and

to remove and mark the samples for the control test.

Sampling for the control test is carried out by the control tester from the testing centre, usually at the manufacturer's production facility or central warehouse.

The control inspector may transfer the samples taken to the testing centre himself or delegate this task to the manufacturer.

If, in exceptional cases, samples are taken from the dealer or customer, the traceability of the products with regard to their manufacture (e.g. by production date, batch, production line) must be ensured.

The type and scope of the control testing of the products taken is specified in Table A.

Proof of external surveillance in the form of a control test report (DVGW CERT GmbH form) and the test reports on the samples taken are provided to the manufacturer and the certification body by the testing laboratory.

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Table A: Control testing (external surveillance)

Requirements and tests of product properties according to the respective section of DIN EN 1254-1		Number of samples
4.2.2	Tightness: Integrity of the manufactured fitting bodies	Random sample ²⁾ consisting of 3 fittings per nominal diameter
4.4.2.1.2	Permanent tightness: Carbon film	Random sample ²⁾ of 5 fittings with different shapes
4.4.2.1.3	Permanent tightness: Total carbon	Sample ²⁾ from 5 fittings with different shapes
4.5	Diameter dimensional tolerances	One fitting per nominal diameter
4.6	Wall thickness of capillary internal solder joints in copper pipes	One fitting per nominal diameter
4.11 ¹⁾	Other transition ends (not specified in EN 1254-20:2021)	One fitting per nominal diameter
4.12	Soldering length	One fitting per nominal diameter
4.14	Pipe stop	Random sample ²⁾ consisting of 3 fittings with different delivery forms per nominal diameter
4.16 ^{Fehler! Textmarke nicht definiert.}	Transmission surfaces for screw systems	One fitting per nominal diameter
4.17	Surface finish	Random sample ²⁾ of 3 fittings with different delivery forms per nominal diameter

9 Labelling

The product is labelled in accordance with the specifications

- of DIN EN 1254-1, section "Labelling",
- the requirements of the DVGW CERT Rules of Procedure, section "Labelling" and also includes
- permanently legible information on the nominal diameter of the product,
- Information on the product and/or packaging that allows the product batch to be traced. product batch.

1) if applicable

2) Care must be taken to ensure that the sum of all samples covers as many dimensions and fitting types as possible. During a certification period (5 years), all diameters and types must be sampled and tested at least once.

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10 Applicable documents

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

- Geschäftsordnung (GO) der DVGW CERT GmbH zur Zertifizierung von Produkten im nicht harmonisierten Bereich, <40014>
- Bewertungsgrundlagen des Umweltbundesamtes für Materialien und Werkstoffe im Kontakt mit Trinkwasser (gemäß § 15 Trinkwasserverordnung);
- Empfehlung des Umweltbundesamtes für die Konformitätsbestätigung der trinkwasserhygienischen Eignung von Produkten
- Durchführungsbeschluss (EU) 2024/368 der Kommission vom 23. Januar 2024 mit Durchführungsbestimmungen zur Richtlinie (EU) 2020/2184 des Europäischen Parlaments und des Rates in Bezug auf die Verfahren und Methoden für die Prüfung und Bestätigung der Zulässigkeit endgültiger, in Produkten verwendeter Materialien bzw. Werkstoffe, die mit Wasser für den menschlichen Gebrauch in Kontakt kommen
- DVGW CERT ZP 0800 <50800>: Zertifizierungsprogramm Konformitätsbestätigung der trinkwasserhygienischen Eignung auf Basis einer Typprüfung
- DVGW CERT ZP 0800_EU <50800_EU>: Konformitätsbewertung der trinkwasserhygienischen Eignung gemäß europäischer Trinkwasserrichtlinie (EU) 2020/2184 nach Modul B und C des Beschlusses Nr. 768/2008/EG
- DVGW CERT ZP 1000 <51000>: Zertifizierungsprogramm Konformitätsbestätigung der trinkwasserhygienischen Eignung Verfahren 1+
- DVGW CERT ZP 1000_EU <51000_EU>: Zertifizierungsprogramm Konformitätsbewertung der trinkwasserhygienischen Eignung gemäß europäischer Trinkwasserrichtlinie (EU) 2020/2184 nach Modul B und D des Beschlusses Nr. 768/2008/EG
- EN ISO/IEC 17025: Allgemeine Anforderungen an die Kompetenz von Prüf- und Kalibrierlaboratorien ISO/IEC 17025
- DIN 1988-100; Stand: August 2011³⁾
Technische Regeln für Trinkwasser-Installationen – Teil 100: Schutz des Trinkwassers, Erhaltung der Trinkwassergüte; Technische Regel des DVGW
- DIN EN 1254-1, Stand: Oktober 2021
Kupfer und Kupferlegierungen - Fittings - Teil 1: Kapillarlötfittings für Kupferrohre (Weich- und Hartlötten)
- DIN EN 1254-20, Stand: Oktober 2021
Kupfer und Kupferlegierungen - Fittings - Teil 20: Definitionen, Gewindemaße, Prüfverfahren, Referenzdaten und ergänzende Informationen

11 Period of validity

This certification programme is valid from 05.12.2025 until further notice.

In case of doubt, the german document is the legally binding

3) Hinweis: Enthält Hinweise für Flussmittel für die Lötverbindung