

	Certification programme ZP 7402 Threaded, capillary solder and transition fittings made of copper alloys in accordance with DIN EN 1254-4		57402-00-N-GB
			Doc. type ZP
			Author DVGW CERT GmbH
			Status 05.12.2025

Certification programme ZP
“Zertifizierungsprogramm” 7402
of DVGW CERT GmbH, Bonn

Threaded, capillary solder and transition
fittings
made of copper alloys
in accordance with DIN EN 1254-4

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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-7402DQ0004 resp. NW-7402DP0004

DW = DVGW certification mark for water,

NW = DIN-DVGW certification mark for water,

7402 = 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 threaded fittings made of copper alloys with tapered external threads and cylindrical internal threads in accordance with DIN EN 10226-1, as well as capillary solder and transition fittings made of copper alloys for gas and drinking water installations. It regulates the type examination and the internal and external surveillance of the fittings.

Product group	Product code	Product type
Capillary solder and transition fittings	7402	Threaded, capillary solder and transition fittings made of copper alloys in accordance with DIN EN 1254-4

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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.

7 Requirements

7.1 Mechanical requirements:

The requirements of DIN EN 1254-4 (thread end) and DIN EN 1254-1 (solder ends) apply, where applicable.

7.2 Hygienic requirements:

The hygiene requirements within the scope of this certification programme are based on the 'Annex for Certification Programmes (ZP) for Hygiene 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 1254-4, Section 6.2 and DIN EN 1254-1, Section 6.2, where applicable.

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 programme.

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

The manufacturer must carry out and document its own production controls in such a way that a reliable assessment of production is possible. The type and scope of the WPK tests are specified in Table 4 of DIN EN 1254-4 and Table 7 of DIN EN 1254-1. In addition, valid material-specific "hygiene certificates of conformity" in accordance with Section 7.2 of these 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 external surveillance inspector appointed by the testing centre. The inspector is appointed by the certificate holder.

The purpose of external surveillance is to

verify the manufacturer's internal 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 usually carried out by the control tester from the testing centre at the manufacturer's production facility or central warehouse.

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

If, in exceptional cases, samples are taken from the distributor 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 Tables A1 and A2.

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 made available to the manufacturer and the certification body by the testing laboratory.

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9 Anhang

Table A1: Control test (external surveillance)

Requirements and tests of product properties in accordance with the relevant section of DIN EN 1254-4		Number of samples
4.2.2	Tightness: Integrity of the fitting bodies with moulded structure or the manufactured fitting bodies	Random sample ¹⁾ of 3 fittings per nominal diameter
4.5	Resistance to internal pressure: Stress corrosion cracking resistance	One fitting per nominal diameter per alloy type
4.5.2	Permanent tightness: Resistance to dezincification	One straight and one shaped fitting per alloy type
4.6	Wall thickness on threaded parts of transition fittings	One fitting per nominal diameter
4.7	Dimensions of the end pipe connections of fittings with screw connections	One fitting per nominal diameter
4.8	Dimensions of gas screw connections	One fitting per nominal diameter
4.9	Dimensions of thread ends	One fitting per nominal diameter
4.10	Other transition ends (not specified in EN 1254-20:2021)	One fitting per nominal diameter
4.13	Transfer surfaces for screw systems	One fitting per nominal diameter
4.14	Surface finish	Random sample ¹⁾ of 3 fittings with different delivery forms per nominal diameter

1) 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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Table A2: Additional inspection (external monitoring) for fittings with capillary soldering

Requirements and tests for product properties in accordance with the relevant section of DIN EN 1254-1		Number of samples
4.5	Dimensional tolerances of the diameters	One fitting per nominal diameter
4.	Wall thickness of capillary internal solder joints of copper pipes	One fitting per nominal diameter and alloy: semi-finished products made of copper, semi-finished products made of copper alloys and continuous cast rods or castings made of copper and copper alloys, where applicable
4.7	Wall thickness on threaded parts of transition fittings	One fitting per nominal diameter
4.12	Soldering length	One fitting per nominal diameter
4.14	Pipe stop	Random simple ²⁾ of 3 fittings with different delivery forms per nominal diameter

Footnote 2) See Table A1

1. Labeling

The product is marked in accordance with the specifications

- of DIN EN 1254-4 and, where applicable, DIN EN 1254-1, in each case section "Marking",
- the requirements of the DVGW CERT Rules of Procedure for the certification of products in the non-harmonised area.

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.

2) Es ist darauf zu achten, dass die Summe aller Stichproben möglichst jede Dimension und jeden Fittingtypen abdeckt. Während einer Zertifizierungsperiode (5Jahre) sind alle Durchmesser und alle Typen mindestens einmal zu entnehmen und zu prüfen.

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2. 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 1988-100:³ Technische Regeln für Trinkwasser-Installationen – Teil 100: Schutz des Trinkwassers, Erhaltung der Trinkwassergüte; Technische Regel des DVGW
- DIN EN 10226-1, Stand: Rohrgewinde für im Gewinde dichtende Verbindungen - Teil 1: Kegelige Außengewinde und zylindrische Innengewinde - Maße, Toleranzen und Bezeichnung
- DIN EN 1254-1: Kupfer und Kupferlegierungen - Fittings - Teil 1: Kapillarlötfittings für Kupferrohre (Weich- und Hartlötten)
- DIN EN 1254-4: Kupfer und Kupferlegierungen - Fittings - Teil 4: Gewindefittings
- DIN EN 1254-20: Kupfer und Kupferlegierungen - Fittings - Teil 20: Definitionen, Gewinde- maße, Prüfverfahren, Referenzdaten und ergänzende Informationen

3. 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