

# Deutsche Akkreditierungsstelle

## Annex to the Partial Accreditation Certificate D-PL-14195-01-01 according to DIN EN ISO/IEC 17025:2018

Valid from: 19.12.2024

Date of issue: 19.12.2024

This annex is a part of the accreditation certificate D-PL-14195-01-00.

Holder of partial accreditation certificate:

**CHT Germany GmbH**  
**Bismarckstraße 102, 72072 Tübingen**

with the location

**CHT Germany GmbH**  
**Analytics**  
**Bismarckstraße 102, 72072 Tübingen**

The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and they conform to the principles of DIN EN ISO 9001.

Examinations in the following areas:

**Selected physical, physico-chemical and chemical investigations of liquid and solid chemical intermediates and end products, raw materials, active ingredients, polymers and plastics; selected biological investigations of chemical intermediates and end products, raw materials and active ingredients**

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Abbreviations used: see last page

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**Annex to the Partial Accreditation Certificate D-PL-14195-01-01**

**Flexible scope of accreditation:**

The testing laboratory is permitted to use the standardized or equivalent test methods listed here with different issue statuses without the need for prior information and approval by DAkkS (flexible accreditation according to category A).

The testing laboratory has a current list of all test methods in the flexible accreditation area. The list is publicly available on the website of the testing laboratory.

**1 Investigation of chemical products**

**1.1 Physical and physicochemical parameters**

ISO 13320 2020-01	Particle size analysis - Laser diffraction methods
DIN EN ISO 2719 2003-09	Determination of flash point - Pensky-Martens closed cup method
DIN EN ISO 10523 2012-04	Water quality - Determination of pH (Modification: <i>application to chemical products</i> )

**1.2 Summarized impact and substance parameters**

DIN EN 1484 2019-04	Water analysis - Guidelines for the determination of total organic carbon (TOC) and dissolved organic carbon (DOC) (Modification: <i>Application to chemical products</i> )
DIN EN ISO 9562 2005-02	Water quality - Determination of adsorbable organically bound halogens (AOX) (Modification: <i>Application to chemical products</i> )
DIN EN 12260 2003-12	Water quality - Determination of nitrogen - Determination of total bound nitrogen (TNb) after oxidation to nitrogen oxides (withdrawn standard, modification: <i>Application to chemical products</i> )
DIN 38409-41 1980-12	German Standard Methods for Examination of Water, Waste Water and Sludge; Summary Action and Material Characteristic Parameters (Group H); Determination of the Chemical Oxygen Demand (COD) in the Range over 15 mg/l (H41) (Modification: <i>Application to chemical products</i> )

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DIN EN ISO 9377-2  
2001-07                      Water quality - Determination of hydrocarbon oil index - Part 2:  
Method using solvent extraction and gas chromatography  
(Modification: *Application to chemical products*)

DIN EN 1899-2  
1998-05                      Water quality - Determination of biochemical oxygen demand after n  
days (BOD<sub>n</sub>) - Part 2: Method for undiluted samples (Modification:  
*Application to chemical products*)

**1.3    Photometry**

DIN EN ISO 6271  
2016-05                      Clear liquids - Estimation of colour by the platinum-cobalt colour scale

**1.4    Volumetrics**

DIN EN ISO 12937  
2002-03                      Petroleum products - Determination of water - Coulometric Karl  
Fischer titration method

DIN EN 13267  
2001-06                      Surface active agents - Determination of water content - Karl Fischer  
method

**1.5    Infrared spectrometric analysis**

DIN 51451  
2020-02                      Testing of petroleum products and related products - Analysis by  
infrared spectrometry - General working principles,  
section 10.1 Qualitative analysis

**1.6    Thermal analysis**

DIN EN ISO 11357-2  
2020-08                      Plastics - Differential scanning calorimetry (DSC) - Part 2:  
Determination of glass transition temperature and step height

DIN EN ISO 11357-3  
2018-07                      Plastics - Differential scanning calorimetry (DSC) - Part 3:  
Determination of temperature and enthalpy of melting and  
crystallization

DIN EN ISO 11358-1  
2022-07                      Plastics - Thermogravimetry (TG) of polymers - Part 1: General  
principles

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**1.7 Test methods with aquatic organisms**

OECD 202 2004-04	Daphnia sp., Acute Immobilisation Test
OECD 301 A 1992-07	DOC Die-Away Test
OECD 301 B 1992-07	CO2 Evolution Test (Modified Sturm Test)
OECD 301 F 1992-07	Manometric Respirometry Test
OECD 302 B 1992-07	Inherent Biodegradability, Zahn-Wellens / EMPA Test

**Abbreviations used:**

DIN	Deutsches Institut für Normung e.V. – German institute for standardization
EN	Europäische Norm – European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardisation
OECD	Organisation for Economic Co-operation and Development
SOP	In house method of the CHT Germany GmbH Umweltanalytik (UA) und Instrumentelle Analytik (IA)

# Deutsche Akkreditierungsstelle

## Annex to the Partial Accreditation Certificate D-PL-14195-01-02 according to DIN EN ISO/IEC 17025:2018

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The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and they conform to the principles of DIN EN ISO 9001.

### **Tests in the following areas:**

selected chemical, physico-chemical and biological tests of water (raw water, waste water, process water)

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**Annex to the Partial Accreditation Certificate D-PL-14195-01-02**

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The testing laboratory is permitted to use the standardized or equivalent test methods listed here with different issue statuses without the need for prior information and approval by DAkkS (flexible accreditation according to category A).

The testing laboratory has a current list of all test methods in the flexible accreditation area. The list is publicly available on the testing laboratory's website.

**Analysis of water (raw water, waste water, process water)**

**1 Physico-chemical parameters**

DIN EN ISO 10523 (C 5)      Water quality - Determination of pH  
2012-04

**2 Summary indices of actions and substances**

DIN EN 1484 (H 3)      Water analysis - Guidelines for the determination of total organic  
2019-04      carbon (TOC) and dissolved organic carbon (DOC)

DIN EN ISO 9562 (H 14)      Water quality - Determination of adsorbable organically bound  
2005-02      halogens (AOX)

DIN EN 12260 (H 34)      Water quality - Determination of total bound nitrogen (TNb) after high  
2003-12      temperature catalytic oxidative combustion

DIN 38409- H 41      Determination of the chemical oxygen demand (COD) in the range  
1980-12      over 15 mg/l

DIN EN ISO 9377-2 (H 53)      Water quality - Determination of hydrocarbon index  
2001-07      Part 2: Method using solvent extraction and gas chromatography

DIN EN 1899-2 (H 55)      Water quality - Determination of biochemical oxygen demand after n  
1998-05      days (BOD<sub>n</sub>) - Part 2: Method for undiluted samples

**3 Determination of elements**

DIN EN ISO 11885 (E 22)      Water quality - Determination of selected elements by inductively  
2009-09      coupled plasma optical emission spectrometry (ICP-OES)

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**4 Test methods with aquatic organisms**

DIN 38412-L 30 1989-03	Determination of the non-acute toxic effect of wastewater towards Daphnia via dilution stages
OECD 301 A 1992-07	DOC Die-Away Test
OECD 301 B 1992-07	CO <sub>2</sub> Evolution Test (Modified Sturm Test)
OECD 301 F 1992-07	Manometric Respirometry Test
OECD 302 B 1992-07	Inherent Biodegradability: Zahn-Wellens / EMPA Test

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# Deutsche Akkreditierungsstelle

## Annex to the Partial Accreditation Certificate D-PL-14195-01-03 according to DIN EN ISO/IEC 17025:2018

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### **Tests in the following areas:**

**Selected physical, physico-chemical and chemical examinations of textile products**

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The testing laboratory has a current list of all test methods in the flexible accreditation area. The list is publicly available on the website of the testing laboratory.

**1 Examination of textile products**

**1.1 Photometry**

DIN EN ISO 14184-1 2011-12	Textiles - Determination of formaldehyde - Part 1: Free and hydrolysed formaldehyde (water extraction method)
JIS L 1041 2011-07	Test methods for resin finished textiles. Section 8: Free Formaldehyde Test.

**1.2 Infrared spectrometric analysis**

DIN 51451 2020-02	Testing of petroleum products and related products - Analysis by infrared spectrometry - General working principles 10.1 Qualitative analysis (Modification: <i>Application to textile products</i> )
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**1.3 Thermal analysis**

DIN EN ISO 11357-2 2020-08	Plastics - Differential scanning calorimetry (DSC) - Part 2: Determination of glass transition temperature and step height (Modification: <i>Application to textile products</i> )
DIN EN ISO 11357-3 2018-07	Plastics - Differential scanning calorimetry (DSC) - Part 3: Plastics - Differential scanning calorimetry (DSC) - Part 3: Determination of temperature and enthalpy of melting and crystallization (Modification: <i>Application to textile products</i> )
DIN EN ISO 11358-1 2022-07	Plastics - Thermogravimetry (TG) of polymers - Part 1: General principles (Modification: <i>Application to textile products</i> )

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**Abbreviations used:**

DIN	Deutsches Institut für Normung e.V. – German institute for standardization
EN	Europäische Norm – European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardisation
JIS	Japanese Industrial Standard, Japanese Standards Association