

# Deutsche Akkreditierungsstelle GmbH

## Annex to the Accreditation Certificate D-PL-11164-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 07.06.2021

Date of issue: 10.09.2021

Holder of certificate:

**Fogra Forschungsinstitut für Medientechnologien e.V.  
Einsteinring 1a, 85609 Aschheim b. München**

Tests in the fields:

**mechanical-technological and electronic tests as well as environmental simulation tests on  
identification cards and ID cards as well as the materials required for their production**

**Within the given testing field the testing laboratory is permitted, without being required to inform  
and obtain prior approval from DAkkS,**

**\*) the free choice of standard or equivalent testing methods.**

**\*\*\*) the modification, development and refinement of testing methods.**

**The listed testing methods are exemplary.**

**Within the scope of accreditation marked with \*\*\*) , the testing laboratory is permitted, without  
being required to inform and obtain prior approval from DAkkS, to use standards or equivalent  
testing methods listed here with different issue dates.**

**The testing laboratory maintains a current list of all testing procedures within the flexible scope of  
accreditation.**

*The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories. Laboratories that conform to the requirements of this standard, operate generally in accordance with the principles of DIN EN ISO 9001.*

*The certificate together with the annex reflects the status as indicated by the date of issue.*

*The current status of any given scope of accreditation may be found respectively in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH <https://www.dakks.de/en/content/accredited-bodies-dakks>.*

Abbreviations used: see last page

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This document is a translation. The definitive version is the original German annex to the accreditation certificate.

**Annex to the accreditation certificate D-PL-11164-01-00**

**1 Determination of qualitative features or the function on or of identification cards or their components by means of environmental simulation tests in the areas of temperature and climate \*\***

Fogra-Method AGE F02:2020      Aging according to the Fogra method  
01.06.2020

Fogra-Method LIF F16:2020      Intermittent life  
01.09.2020

Fogra-Method CHT F16:2020      Changeable temperature cycle  
31.07.2020

**2 Determination of the strength of identification cards or their components as well as machine-readable travel documents or their components by means of tensile and pressure tests \***

DIN 32753-1      Office and data technology - identification cards made of plastic or  
1983-06      plastic-laminated material - test method for the identification card 1  
(ID 1)  
(here: *chapter 4.9*)  
(*withdrawn standard*)

ISO/IEC 10373-1      Cards and security devices for personal identification - Test methods - Part 1:  
2020-10      General characteristics  
(here: *chapter 5.3 and 5.4*)

ISO/IEC 18745-1      Test methods for machine readable travel documents (MRTD) and associated  
2018-07      devices - Part 1: Physical test methods for passport books (durability)  
(here: *chapter 8.1, 8.9 and 8.10*)

**3 Determination of qualitative features or the function on or of identification cards or their components as well as machine-readable travel documents or their components by means of environmental simulation tests in the areas of temperature and climate \***

ISO/IEC 18745-1      Test methods for machine readable travel documents (MRTD) and associated  
2018-07      devices - Part 1: Physical test methods for passport books (durability)  
(here: *chapter 8.1, 8.2, 8.3, 8.4 and 11.2*)

ISO/IEC 24789-1      Identification cards - Card service life - Part 1: Application profiles and  
2012-04      requirements  
(here: *chapter 4 and 5*)

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ISO/IEC 24789-2 Identification cards - Card service life - Part 2: Methods of evaluation  
2011-11 (here: *chapter 5*)

**4 Dimension measurements on identification cards or their components as well as machine-readable travel documents or their components using mechanical, electronic and optical measuring methods \***

DIN 32753-1 Office and data technology - Identification cards made of plastic or  
1983-06 plastic-laminated material - test method for the identification card 1  
(ID 1)  
(here: *chapter 4.2, 4.6 and 4.7*)  
(*withdrawn standard*)

ISO/IEC 10373-1 Cards and security devices for personal identification - Test methods - Part 1:  
2020-10 General characteristics  
(here: *chapter 5.1, 5.13, 5.14, 5.2, 5.6, 5.8, 6.3 and 6.9*)

ISO/IEC 10373-2 Identification cards - Test methods - Part 2: Cards with magnetic stripes  
2015-01 (here: *chapter 5.1 and 5.2*)

ISO/IEC 7810 Identification cards - Physical characteristics  
2019-12 (here: *chapter 5.2*)

**5 Testing of lightfastness (functional test) or determination of the lightfastness number of or on identification cards or their components as well as machine-readable travel documents or their components using lightfastness test chambers \***

ISO/IEC 10373-1 Cards and security devices for personal identification - Test methods - Part 1:  
2020-10 General characteristics  
(here: *chapter 5.11*)

ISO/IEC 18745-1 Test methods for machine readable travel documents (MRTD) and associated  
2018-07 devices - Part 1: Physical test methods for passport books (durability)  
(here: *chapter 8.14*)

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**6 Testing of the discharge and the resistance of identification cards or their components as well as machine-readable travel documents or their components according to various discharge models and using suitable measuring devices \***

ISO/IEC 10373-1 2020-10	Cards and security devices for personal identification - Test methods - Part 1: General characteristics (here: <i>chapter 5.5, 5.7, 5.9, 5.10, 6.4, 6.5, 6.6, 6.7, 6.10 and annex B</i> )
ISO/IEC 10373-2 2015-01	Identification cards - Test methods - Part 2: Cards with magnetic stripes (here: <i>chapter 5.7</i> )
ISO/IEC 18745-1 2018-07	Test methods for machine readable travel documents (MRTD) and associated devices - Part 1: Physical test methods for passport books (durability (here: <i>chapter 8.1, 8.2, 8.3, 8.4, 8.5, 8.11, 8.12, 8.13, 10.15 and 11.2</i> )
ISO/IEC 18745-2 2016-08	Information technology - Test methods for machine readable travel documents (MRTD) and associated devices - Part 2: Test methods for the contactless interface (here: <i>chapter 5.6.2</i> )
ISO/IEC 24789-1 2012-04	Identification cards - Card service life - Part 1: Application profiles and requirements (here: <i>chapter 4 and 5</i> )
ISO/IEC 24789-2 2011-11	Identification cards - Card service life - Part 2: Methods of evaluation (here: <i>chapter 5</i> )

**7 Further standardized test methods \*\*\***

ISO/IEC 10373 1993-12	Identification cards - Test methods ( <i>withdrawn standard</i> )
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**8 Further non-standardized test methods**

Gematik gemSpec_eGK_Opt Version 3.10.0 02.10.2019	The specification of the electronic health card Exterior design (here: <i>chapter 2.2.2 and 3</i> )
KVK-Spezifikation Version 2.08 25.11.2009	Technical specification of the insurance card (here: <i>annex 6.7</i> )

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CQM Requirements Version 2.19.1 2020	Mastercard - CQM Requirements (here: <i>chapter #6009#, #6010#, #8030#, #8040#, #8080#, #8091#, #8100#, #8110#, #8130#, #8140#, #8150#, #8160#, #8190#, #8210#, #8220#, #8250#, #8260#, #9020# und #4019#</i> )
CQM Requirements Version 1.9 D 04.02.2009	Card Quality Management: Infrastructure Quality Requirements (here: <i>chapter 10.3.23</i> )
MIL-STD 883 Method 1010.9 2016	Department of defense - Test method standard: Environmental Test Methods for Microcircuits - Part 1: Test Methods 1000-1999 AMSC 1010.8: Temperature cycling (here: <i>with adjusted temperature (Fogra Method CHT F16), Test area method 1010.9</i> )

**Abbreviations used:**

CQM	Mastercard Card Quality Management
DIN	German institute for standardization
EN	European standard
Gematik	Gesellschaft für Telematikanwendungen der Gesundheitskarte mbH
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
KVK	Krankenversichertenkarte; Technische Spezifikation vom GKV-Spitzenverband Kassenärztliche Bundesvereinigung und Kassenärztlichen Bundesvereinigung
MIL-STD	United States Military Standard