

Deutsche Akkreditierungsstelle GmbH

Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV

Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition

Accreditation



The Deutsche Akkreditierungsstelle GmbH attests that the reference material producer

IfEP Institut für Eignungsprüfung GmbH

Daimlerstraße 8, 45770 Marl

is competent under the terms of DIN EN ISO 17034:2017 to produce reference materials in the area:

Production of certified reference material in the field of materials testing

- Tensile test: Flat- and Round specimen
- Charpy impact test: Charpy-V-notch reference specimen

The accreditation certificate shall only apply in connection with the notice of accreditation of 25.04.2022 with the accreditation number D-RM-11183-01. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 3 pages.

Registration number of the certificate: **D-RM-11183-01-00**

Berlin,
25.04.2022

Dipl.-Ing. Gabriel Zrenner
Head of Department

Translation issued:
09.05.2022

Head of Department

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 can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de/en/accredited-bodies-search.html>.

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

See notes overleaf.

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-RM-11183-01-00 according to DIN EN ISO 17034:2017

Valid from: 25.04.2022

Date of issue: 25.04.2022

Holder of certificate:

IfEP Institut für Eignungsprüfung GmbH
Daimlerstraße 8, 45770 Marl

Reference material production in the fields:

Production of certified reference material in the field of materials testing

- Tensile test: Flat- and Round specimen
- Charpy impact test: Charpy-V-notch reference specimen

The reference material producer keeps a current list of certified reference materials in the accredited area.

The management system requirements of DIN EN ISO/IEC 17034 are written in the language relevant to the operations of reference material producer. Reference material producer 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 can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de/en/accredited-bodies-search.html>.*

1 Certified Reference Material in the shape of Round Tensile Specimen

Product	Property	Range	Relative uncertainty* in % of reference value	Characterization Strategy
Round test specimens made of metal; Nominal diameter: 5 mm - 16 mm	Tensile strength	(200 - 1.500) MPa	0,8	c) and d)
	Proof strength	(180 - 1.200) MPa	0,8	c) and d)
	Elongation after fracture	(8 - 40) %	0,5	c) and d)
	Reduction of area after fracture	(8 - 50) %	0,5	c) and d)

*) expanded, combined measurement uncertainty (k for a confidence level of 95%)

- c) Characterization of the measurand using a network of competent laboratories according to ISO 17034 clause 7.12.3 Note 1c).
- d) Value transfer from an RM to a closely matched candidate RM performed using a single measurement procedure performed by one laboratory according to ISO 17034 clause 7.12.3 Note 1d).

2 Certified Reference Material in the shape of Flat Tensile Specimen

Product	Property	Range	Relative uncertainty* in % of reference value	Characterization Strategy
Flat test specimens made of metal; 0,1 mm - 3 mm	Tensile strength	(180 - 1.000) MPa	0,4	c) and d)
	Proof strength	(150 - 1.000) MPa	0,8	c) and d)
	Elongation after fracture	(10 - 50) %	0,5	c) and d)
Flat test specimens made of metal; > 3 mm	Tensile strength	(250 - 1.000) MPa	0,4	c) and d)
	Proof strength	(180 - 1.000) MPa	0,7	c) and d)
	Elongation after fracture	(10 - 50) %	0,5	c) and d)

*) expanded, combined measurement uncertainty (k for a confidence level of 95%)

- c) Characterization of the measurand using a network of competent laboratories according to ISO 17034 clause 7.12.3 Note 1c).
- d) Value transfer from an RM to a closely matched candidate RM performed using a single measurement procedure performed by one laboratory according to ISO 17034 clause 7.12.3 Note 1d).

3 Certified Reference Material in the shape of Charpy Specimen

Product	Property	Range	Uncertainty*	Characterization Strategy
Charpy specimens made of metal V-Notch 2 mm striker	Impact energy	(15 - < 40) J (40 - 300) J	1 J 6% of reference value	c) and d)
Charpy specimens made of metal V-Notch 8 mm striker	Impact energy	(15 - < 40) J (40 - 300) J	1,2 J 6% of reference value	c) and d)

*) expanded, combined measurement uncertainty (k for a confidence level of 95%)

- c) Characterization of the measurand using a network of competent laboratories according to ISO 17034 clause 7.12.3 Note 1c).
- d) Value transfer from an RM to a closely matched candidate RM performed using a single measurement procedure performed by one laboratory according to ISO 17034 clause 7.12.3 Note 1d).

Abbreviations used:

DIN Deutsches Institut für Normung e.V.
EN European Standard
ISO International Organization for Standardization