

# Material testing

## Product catalogue 2024 / 2025



Your laboratory quality

### In the testing fields:

- Thermoplastics
- Rubber and TPE
- Plastic products such as
  - Plastic films
  - Plastic pipes
  - Foams
  - Geosynthetics
  - Composites
- Plastic - paintwork
- Plastic - electroplating
  
- Metals and wheels
- Metal - paintwork
- Technical Cleanliness
  
- Textiles
- Leather
- Personal protective equipment (PPE)
  
- Building materials
  
- Paper | board
  
- Vibration | Shock
- Electromagnetic compatibility (EMC)

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## Deutsches Referenzbüro für Ringversuche und Referenzmaterialien GmbH (DRRR GmbH)



### Proficiency testing provider

The DRRR offers laboratories from the processing industry as well as official and private laboratories all aspects of quality assurance from one single source. Our focus is on food, consumer goods, packaging, building materials, plastics (polymers) and textiles, as well as microbiological analysis in these categories.

More than 500 PT's in 2023

### Accreditation ISO/IEC 17043:2010 (A2LA)

The DRRR is an accredited proficiency testing provider by A2LA according to ISO/IEC 17043:2010. The accreditation is only valid for the matrices/parameters listed on the A2LA scope of accreditation certificate [#5494.01].

Accredited PT-provider



Whether a proficiency test is covered or not covered by the scope of accreditation by A2LA can be viewed in our online portal (ODIN).

### Accreditation DIN EN ISO/IEC 17043:2010 (DAkkS)

The DRRR is an accredited proficiency testing provider by DAkkS according to DIN EN ISO/IEC 17043:2010. The accreditation is valid only for the scope listed in the annex of the accreditation certificate [D-EP-17063-01-00].

Whether a proficiency test is covered or not covered by the scope of accreditation by DAkkS can be viewed in our online portal (ODIN).

### Reference material producer

We offer many certified reference materials as well as advise on quality matters and quality assurance training in the laboratory and the production.

High-quality reference material

### Customer support

We provide advice to our customers in all question of validation of chemical-physical, microbiological, organoleptic and physical-mechanical analysis or statistical questions.

Any time competent contact persons

### More than 50 new Proficiency tests:

We have added **more than 30 new Proficiency tests** to the material testing catalogue 2024/2025 in the following testing fields:

#### • Test methods Volkswagen AG

The Volkswagen AG qualification program will continue in 2024, and DRRR is the official proficiency test provider for this program.

These cover a wide range of subject areas:

- Leather
- Textiles (upholstery fabrics)
- Foams
- Plastics
- Plastics - Electroplating
- Plastics - surfaces
- Rubber / O-rings
- Burning behavior

#### • Bituminous mixture | Bitumen

New proficiency tests have been included on the following topics:

- Bulk density
- Needle penetration
- Softening point
- Soluble binder content

#### • Spot developments

Through specific further developments, we offer even better possibilities for laboratory comparison in many test areas. These include:

- Cleanliness (gravimetric) VDA 19.1, ISO 16232
- Textiles - Burning behaviour vertically oriented specimens ISO 6941
- Earplugs - Sound attenuation EN 352-2
- Resistance of materials to penetration by liquids ISO 6530
- Thermal insulating products - water vapour transmission EN 12086

### Compact registration forms

Besides the comfortable online registration in ODIN you can also use the registration forms (pdf) for different testing fields. Please visit our website.

#### • Environmental testing | EMC

In cooperation with the consulting company 4TIERS GmbH from Hamburg, we have further developed our proficiency testing program on the topic of environmental simulation and EMC.

##### Environmental simulation:

For 2024, the focus will be on the following test areas:

- **Vibration / Shock**
- **Temperature change and damp heat**

The test specimen will be shipped from laboratory to laboratory. This means that all laboratories perform the tests on the same specimen.

##### Electromagnetic compatibility (EMC):

This area has been greatly reorganized for 2024 and methods have been combined. This creates an even more attractive offer for our customers. The area is further subdivided into the following test areas:

- **Radiated emission / Susceptibility**
- **Conducted Emission / disturbance**

[www.DRRR.de](http://www.DRRR.de)

Simply brilliant, your proficiency testing with ODIN (Online Data Information Network).

- Fast and easy online registration / online announcement in our online catalogue
- Direct management and booking of the proficiency testing
- Overview about the registered proficiency testing schemes
- Fast and secure submission of your results via ODIN
- Online access to individual customers reports and certificates
- Supervisor rights available to overview all PTs of a multi-site company
- Saving of costs through booking and submission of your results via ODIN

Secure payment with IRIS (Internet Remuneration Information Service).

- Easy and safe payment by credit card
- Overview about all invoices
- Fast and secure online access

*You can also pay your invoice via banktransfer or bank check.*



Book Ringtrials Online

➤ Proficiency testing catalog



Enter Results Online

➤ Booked proficiency testings



Download Reports and Certificates

➤ Booked proficiency testings

- A precise planning and organisation of each proficiency testing round

- 2 weeks before we will dispatch the samples you will get an announcement with the proficiency testing details

- According to our requirements, you will receive suitable sample material for the respective proficiency testing scheme.

We reserve the right to have an external subcontractor carry out the sample purchase and any necessary testing.

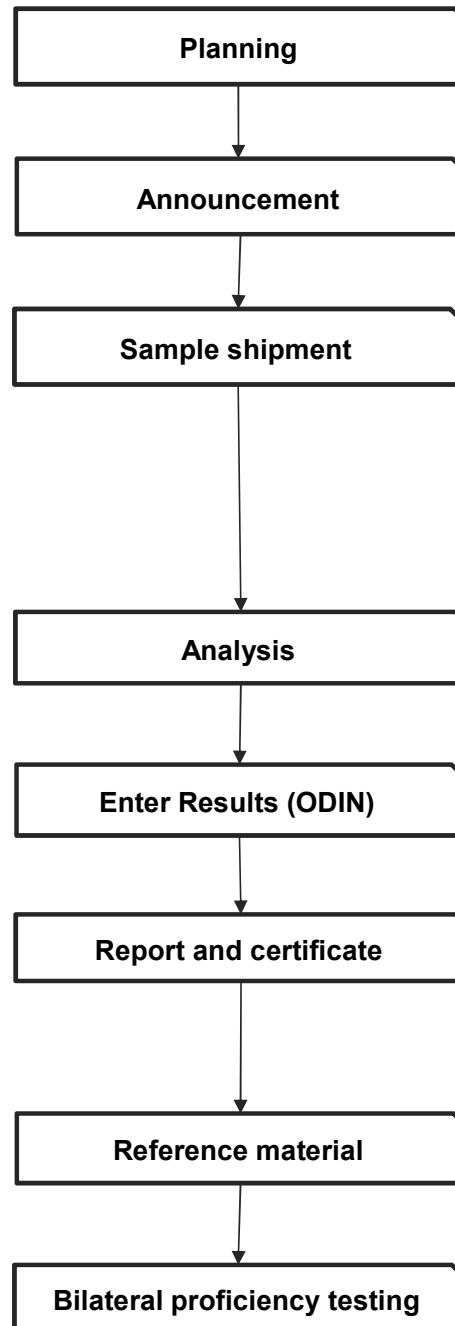
- After receiving the samples you will have a period of 4-8 weeks for analysing

- Mail back the results via internet by using our result sheets in an Excel file or fill out our result sheets online in ODIN

- At the latest 4-8 weeks after the deadline you will get the report (optional by login in ODIN, as hardcopy by regular mail or as pdf-file by e-mail) incl. participation certificate with overview of your lab performance

- After the proficiency testing we can offer you reference materials

- Possibility to perform a bilateral proficiency testing (bPT)



## Why take part in proficiency testing?

- Participation in proficiency testing schemes is required by international standards or national facilities, organizations and customers
- Participants can compare, assure and improve their own performance and quality against other laboratories worldwide
- Laboratories can recognize how well they have been completed with the applied method compared to the other laboratories
- Saving on the costs of testing
- Unquestionable lab performance towards customers, authorities and certification authorities
- Saving on the costs of lab development and maintenance
- Saving on the costs of lab development and maintenance
- Saving on production costs by avoiding waste of raw material

## Your benefits in DRRR proficiency testing schemes

- Objective and independent impression of your quality and your performance of your routine testing method compared to the other participating laboratories
- Saving the costs, because you have the opportunity to analyze more samples and more parameters in one proficiency testing
- External demonstration of your performance with the results of the proficiency testing
- Build up of your own external quality assurance system with our statistical tools (contains statistical control charts, MS-Excel evaluation files and reference materials). With these tools incorporated your external quality assurance rays unmatched confidence
- Detailed planning and organization of your proficiency testing and an easier, faster and better communication with us



Image source:  
iStock.com/3dts



## We work according to:

- ISO Guide 31 / 35
- DIN EN ISO 17034
- DIN EN ISO/IEC 17020 / 17025 / 17043
- ISO 13528

Homogenous and stable sample material

## Laboratory performance:

by calculation of the following parameters:

- z-score
- z'-score
- CRD-Wert

Calculation of precision data acc. to ISO 5725-2 in many proficiency testing schemes

## Statistical models:

Depending on the type of the distribution of the data, different statistic models are used:

- Conventional statistics (all values)
- Conventional statistics (no outliers)
- Robust statistics (Hampel estimator, Q-method)
- Robust statistics (Median, MAD/nIQR)
- Expert laboratory (expert decision)

Detailed information can also be found in our statistical protocol.

Method-specific evaluation according to the reference method (if available)

Additional extended method evaluation (in case data are available)



**You are not satisfied with your laboratory performance: What can you do?**

Due to your showed laboratory performance you have been asked by the accreditation body, the monitoring authority or your customer to initiate measures to improve your laboratory performance.

These measures are often connected with considerable efforts in the laboratory and you only have a short time frame. In many cases the proof of a successful measure processing, by participation in a new proficiency testing round, is only possible in the following year. Until now it does not exist a possibility for a spontaneous performance review to equalize a previous unsatisfactory proficiency testing result.

**New: The bilateral proficiency testing (bPT)!**

You can book and perform individually and flexibly the bilateral proficiency testing during a determined time period.

You receive a proficiency testing sample for analyzing. You submit the results of the testing. After that you will get your proof of performance as a z'-score calculation in the form of a certificate within 1 - 2 weeks.

The performance evaluation refers to the previous regular proficiency testing, so that you can connect the bPT to the regular proficiency testing round. The used sample material is derived from a previous proficiency testing round and provides the possibility of a comparable performance evaluation with the regular proficiency testing.

**Your terms and conditions:**

Participation in a bPT is open to all laboratories. Prior participation in our regular proficiency tests is not necessary.

The report of this proficiency testing is not older than ten weeks. You register within these ten weeks for the bPT and the performance is confirmed by the DRRR. The testing period is dependent on the technical factors (parameter, matrix etc.) and will be agreed individually\*. When this time is over after the sample shipment and you do not have sent us your results in this time, we can not evaluate your results and issue a certificate for you.

(\* normally not longer than 1 - 2 weeks)

The bPT is not in the scope of accreditation of the DRRR. The realization of the bPT depends on the availability of the material.

**Costs bPT**

The costs are identical to the costs of the respective proficiency test from our standard program (see ODIN) plus shipping costs.

Alternative you can also order reference material.

## Special characteristics

For most of the Proficiency testing schemes the participants get 2 different samples on different testing levels. So we can ensure that the laboratory has competence for a wide range of test results.

The testing levels are on industry standard and reflect the laboratory routine.

**Different testing levels**

## Cooperation partners

For each testing field of the material testing (plastics, textiles, building material, paper) we work together with accredited and established laboratories and experts from the industries they serve. So we can ensure to provide practical testing material. You can find a list of our partners on our homepage.

**Competent partners**

## Reports easy-to-understand

A clear presentation of our test results and your laboratory performance is important for us.

Despite the huge volume of data and many statistical values we present the results easy-to-understand and transparent in our reports and certificates.

**Reports easy-to-understand**

## Precision data acc. to ISO 5725-2

By using our market-leading statistical evaluation we calculate precision data in accordance with ISO 5725-2 for each proficiency test of the material testing. These data are important for the laboratories and can be used in the every day work.

**Market leading statistical evaluation**

## Technical assistance

You can contact our technical experts at any time e.g. the participant sees potential for improvement in the lab performance. It is also possible to order our reference materials for additional testing.

**Technical assistance**

For your registration we recommend to use our online catalogue (ODIN) or the registration forms on our homepage ([www.DRRR.de](http://www.DRRR.de)). You can also use the registration forms on page 45 of this catalogue.

## Plastics - Dimensions of test specimens

| Art. No. | Standard      | Proficiency testing type <sup>[A]</sup>                                       | period | To view pricing information visit our online Portal: |
|----------|---------------|---|--------|--|
| 2010978  | not specified | Width and Thickness of injection moulded specimen (type 1A) e.g. with caliper | Apr-24 | <a href="#">Login or register</a>                    |

## Plastics - mechanical properties

| Art. No. | Standard      | Proficiency testing type <sup>[A]</sup>   | period |  |
|----------|---------------|---|--------|--|
| 2010988  | ISO 527-1/-2  | <u>Tensile test:</u><br>- Modulus of Elasticity<br>- Tensile strength/Stress at Yield<br>- Elong. at Tensile strength / Elong. at Yield                 | Apr-24 |  |
| 2010886  | ASTM D638     | Tensile test (modulus, strength, elongation)  | Apr-24 |  |
| 2010765  | ISO 527-1/-2  | Tensile Test at +80°C   | Apr-24 |  |
| 2010766  | ISO 527-1/-2  | Tensile Test at -30°C   | Apr-24 |  |
| 2010881  | ISO 899-1     | Tensile creep test  | Apr-24 |  |
| 2010004  | ISO 16770     | Full-notch creep test [FNCT]  | Apr-24 |  |
| 2010116  | VDA 287       | High Speed Tensile Test by using a servo-hydraulic test instrument  | Apr-24 |  |
| 2010989  | ISO 178       | <u>Flexural test:</u><br>- Flexural Modulus<br>- Flexural stress at conventional deflection<br>- Flexural Strength<br>- Elongation at Flexural Strength | Apr-24 |  |
| 2010888  | ASTM D790     | Flexural test (modulus, strength, elongation)   | Apr-24 |  |
| 2010756  | ISO 604       | Compression test (strength, elongation)   | Apr-24 |  |
| 2010773  | ISO 179-1/1eU | Charpy unnotched impact properties +23 °C   | Apr-24 |  |
| 2010782  | ISO 179-1/1eA | Charpy notched impact properties +23 °C   | Apr-24 |  |
| 2010824  | ISO 179-1     | Charpy impact properties -30 °C   | Apr-24 |  |
| 2010774  | ISO 180       | Izod impact properties +23 °C   | Apr-24 |  |
| 2010006  | ASTM D256     | Izod impact properties +23 °C   | Apr-24 |  |

[A] = For accredited and non-accredited status please see [Online portal \(ODIN\)](#)

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## Plastics - mechanical properties

| Art. No. | Standard   | Proficiency testing type <sup>[A]</sup> | period | To view pricing information visit our online Portal: |
|----------|------------|---|--------|--|
| 2010884  | DIN 53435  | Impact test on dynstat test specimens   | Apr-24 | <a href="#">Login or register</a>                    |
| 2010885  | DIN 53435  | Bending test on dynstat test specimens  | Apr-24 |  |
| 2010977  | ISO 8256   | Tensile-impact test (type 1, met. A)    | Apr-24 |  |
| 2010882  | ISO 6603-2 | Instrumented puncture impact test       | Apr-24 |  |
| 2010883  | ASTM D3763 | Instrumented puncture impact test       | Apr-24 |  |
| 2010757  | ISO 6721-5 | DMA - Temperature sweep and Tg          | Apr-24 |  |

## Specimen injection moulding

| Art. No. | Standard     | Proficiency testing type <sup>[A]</sup>                      | period |  |
|----------|--------------|--|--------|--|
| 2010785  | ISO 527-1/-2 | Specimen injection moulding (type 1A) and tensile test       | Apr-24 |  |
| 2010786  | ISO 178      | Specimen injection moulding (type 1A) and flexural test      | Apr-24 |  |
| 2010787  | ISO 179-1    | Specimen injection moulding (type 1A) and Charpy impact test | Apr-24 |  |

## Cutting of specimen

| Art. No. | Standard     | Proficiency testing type <sup>[A]</sup>        | period |  |
|----------|--------------|--|--------|--|
| 2010813  | ISO 527-1/-2 | Cutting of specimen (type 1B) and tensile test | Apr-24 |  |
| 2010814  | ISO 527-1/-2 | Cutting of specimen (type 5A) and tensile test | Apr-24 |  |

## Plastics - polyamide 6 and 6.6

| Art. No. | Standard     | Proficiency testing type <sup>[A]</sup> | period |  |
|----------|--------------|---|--------|--|
| 2010815  | ISO 527-1/-2 | Tensile test                            | Apr-24 |  |
| 2010816  | ISO 178      | Flexural test                           | Apr-24 |  |
| 2010817  | ISO 179-1    | Charpy flexural impact test             | Apr-24 |  |

[A] = For accredited and non-accredited status please see [Online portal \(ODIN\)](#)

For your registration we recommend to use our online catalogue (ODIN) or the registration forms on our homepage ([www.DRRR.de](http://www.DRRR.de)). You can also use the registration forms on page 45 of this catalogue.

### Plastics - density | hardness | ash content

| Art. No. | Standard                 | Proficiency testing type <sup>[A]</sup> | period | To view pricing information visit our online Portal: |
|----------|--------------------------|---|--------|--|
| 2010769  | ISO 1183-1 and ASTM D792 | Density I                               | Apr-24 | <a href="#">Login or register</a>                    |
| 2010984  |                          | Density II                              | Oct-24 |  |
| 2010741  | ISO 1172 and ISO 3451-1  | Ash content                             | Apr-24 |  |
| 2010651  | ASTM G5630               | Ash content <b>[NEW!]</b>               | Apr-24 |  |
| 2010742  | ISO 868                  | Hardness Shore D                        | Apr-24 |  |
| 2010811  | ISO 2039-1               | Ball indentation hardness               | Apr-24 |  |

### Plastics - rheological properties

| Art. No. | Standard                     | Proficiency testing type <sup>[A]</sup>                         | period |  |
|----------|------------------------------|---|--------|--|
| 2010825  | ISO 1133-1/-2 and ASTM D1238 | Melt flow/volume rate (MFR/MVR) I                               | Mar-24 |  |
| 2010008  |                              | Melt flow/volume rate (MFR/MVR) II                              | Oct-24 |  |
| 2010861  | ISO 1133                     | Melt flow/volume rate MFR/MVR (high temperature > 300°C)        | Mar-24 |  |
| 2010213  | ISO 1133-2                   | Melt flow/volume rate (MFR/MVR) of moisture sensitive materials | Mar-24 |  |
| 2010795  | ISO 307                      | Viscosity number (sulfuric acid)                                | Mar-24 |  |
| 2010857  | ISO 307                      | Viscosity number (m-cresol)                                     | Mar-24 |  |
| 2010858  | ISO 307                      | Viscosity number (formic acid)                                  | Mar-24 |  |
| 2010859  | ISO 1628-5                   | Viscosity number of PBT   | Mar-24 |  |
| 2010788  | ISO 11443                    | Fluidity of plastics - capillary rheometers                     | Mar-24 |  |
| 2010789  | ISO 6721-10                  | Complex shear viscosity (parallel-plate)                        | Mar-24 |  |

[A] = For accredited and non-accredited status please see [Online portal \(ODIN\)](#)

For your registration we recommend to use our online catalogue (ODIN) or the registration forms on our homepage ([www.DRRR.de](http://www.DRRR.de)). You can also use the registration forms on page 45 of this catalogue.

## Plastics - thermal properties

| Art. No. | Standard                         | Proficiency testing type <sup>[A]</sup>               | period | To view pricing information visit our online Portal: |
|----------|----------------------------------|---|--------|--|
| 2010743  | ISO 11357-3<br>and<br>ASTM D3418 | DSC-Analysis: Melting point and -enthalpy I           | Mar-24 | <a href="#">Login or register</a>                    |
| 2010985  |                                  | DSC-Analysis: Melting point and -enthalpy II          | Oct-24 |  |
| 2010854  | ISO 11357-2<br>ASTM D3418        | DSC-Analysis: Glass transition temperature            | Mar-24 |  |
| 2010855  | ISO 11357-6<br>ASTM D3895        | DSC-Analysis: Oxidation Induction time (OIT)          | Mar-24 |  |
| 2010297  | ISO 11357-4                      | DSC-Analysis: specific heat capacity                  | Mar-24 |  |
| 2010745  | ISO 11358                        | Thermogravimetry (TGA) - filler content               | Mar-24 |  |
| 2010653  | ASTM E1131                       | Thermogravimetry (TGA) - filler content <b>[NEW!]</b> | Mar-24 |  |
| 2010303  | ISO 6964                         | Carbon black content - method A, B1, B2, C            | Mar-24 |  |
| 2010758  | ISO 11359                        | Coefficient of linear thermal expansion               | Apr-24 |  |
| 2010775  | ISO 306                          | Vicat softening temperature (VST)                     | Apr-24 |  |
| 2010911  | ASTM D1525                       | Vicat softening temperature (VST)                     | Apr-24 |  |
| 2010790  | ISO 75                           | Temperature of deflection under load                  | Apr-24 |  |
| 2010791  | ASTM D648                        | Deflection temperature under flexural load            | Apr-24 |  |

[A] = For accredited and non-accredited status please see [Online portal \(ODIN\)](#)

For your registration we recommend to use our online catalogue (ODIN) or the registration forms on our homepage ([www.DRRR.de](http://www.DRRR.de)). You can also use the registration forms on page 45 of this catalogue.

## Plastics - burning behaviour / Electric

| Art. No. | Standard                       | Proficiency testing type <sup>[A]</sup> | period | To view pricing information visit our online Portal: |
|----------|--------------------------------|---|--------|--|
| 2010819  | FMVSS 302<br>DIN 75200         | Burning rate                            | Mar-24 | <a href="#">Login or register</a>                    |
| 2010862  | UL 94 HB<br>EN 60695-11-10     | Burning rate                            | Mar-24 |  |
| 2010863  | UL 94 V<br>EN 60695-11-10      | Burning rate                            | Mar-24 |  |
| 2010655  | TL 1010                        | Burning behavior                        | Jan-24 |  |
| 2010659  | TL 1011                        | Flammability                            | Mar-24 |  |
| 2010547  | IEC 62631-3-2,<br>VDE 0307-3-2 | Surface resistance                      | May-24 |  |
| 2010549  | IEC 62631-3-1,<br>VDE 0307-3-1 | Volume resistivity                      | May-24 |  |
| 2010864  | EN 60695-2-13                  | Glow-wire ignition temperature (GWIT)   | Mar-24 |  |
| 2010979  | EN 60112                       | CTI – Tracking                          | Mar-24 |  |

[A] = For accredited and non-accredited status please see [Online portal \(ODIN\)](#)



For your registration we recommend to use our online catalogue (ODIN) or the registration forms on our homepage ([www.DRRR.de](http://www.DRRR.de)). You can also use the registration forms on page 45 of this catalogue.

## Plastics - emissions

| Art. No. | Standard             | Proficiency testing type <sup>[A]</sup> | period | To view pricing information visit our online Portal: |
|----------|----------------------|---|--------|--|
| 2010851  | VDA 270<br>PV 3900   | Odour test                              | Mar-24 | <a href="#">Login or register</a>                    |
| 2010555  | GMW 3205             | Odour test <b>[NEW!]</b>                | Mar-24 |  |
| 2010869  | VDA 275<br>PV 3925   | Formaldehyde emission                   | Mar-24 |  |
| 2010843  | VDA 277<br>PV 3341   | Total carbon emission                   | Mar-24 |  |
| 2010870  | VDA 278              | Thermal desorption analysis             | Mar-24 |  |
| 2010797  | DIN 75201            | Fogging/Method A                        | Mar-24 |  |
| 2010557  | GMW 3235             | Fogging/Method A                        | Mar-24 |  |
| 2010798  | DIN 75201<br>PV 3015 | Fogging/Method B                        | Mar-24 |  |
| 2010559  | GMW 3235             | Fogging/Method B                        | Mar-24 |  |

## Plastics - Infrared spectroscopy

| Art. No. | Standard      | Proficiency testing type <sup>[A]</sup>                             | period |  |
|----------|---------------|---|--------|--|
| 2010818  | not specified | Quantitative infrared spectroscopy (FTIR)<br>e.g. VA content of EVA | Mar-24 |  |

From our catalogue of consumer goods we recommend the following proficiency tests:

|         |               |   |        |  |
|---------|---------------|---|--------|--|
| 2010210 | not specified | Identification of plastic granulates      | Mar-24 |  |
| 2010167 | not specified | Identification PA types (e.g. PA6, PA 11) | Mar-24 |  |

## Plastics - water content | water absorption

| Art. No. | Standard  | Proficiency testing type <sup>[A]</sup>              | period |  |
|----------|-----------|--|--------|--|
| 2010793  | ISO 15512 | Water content (Karl-Fischer)                         | Apr-24 |  |
| 2010865  | ISO 15512 | Water content (Aquatrac®) - CaH <sub>2</sub> -method | Apr-24 |  |
| 2010796  | ISO 62    | Water absorption                                     | Apr-24 |  |

[A] = For accredited and non-accredited status please see [Online portal \(ODIN\)](#)

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## Plastics - surfaces

| Art. No. | Standard                | Proficiency testing type <sup>[A]</sup>  | period | To view pricing information visit our online Portal: |
|----------|-------------------------|--|--------|--|
| 2010722  | ISO 2813                | Gloss reading at 20°, 60°, 85°   | Mar-24 | <a href="#">Login or register</a>                    |
| 2010649  | ASTM D523               | Gloss reading at 20°, 60°, 85° <b>[NEW!]</b>   | Mar-24 |  |
| 2010821  | ISO 7724<br>DIN 53236-A | Colour measurement (8°/d) - ΔE, ΔL, Δa, Δb   | Mar-24 |  |
| 2010771  | DIN 53236-B             | Colour measurement (45°/0) - ΔE, ΔL, Δa, Δb  | Mar-24 |  |
| 2010822  | PV 3952                 | Scratch resistance   | Mar-24 |  |
| 2010823  | ISO 1518                | Erichsen-Hardness pencil<br>(in style of ISO 1518, hand-operated devices can also be used) | Mar-24 |  |
| 2011049  | ISO 22557               | Scratch test using a spring-loaded pen <b>[NEW!]</b>                                       | Mar-24 |  |
| 2010871  | ISO 19403-2             | Surface energy (contact angle)   | Mar-24 |  |
| 2010893  | ISO 9352                | Abrasion by abrasive wheels (Taber)  | Mar-24 |  |
| 2010981  | PV 3987                 | Micro scratch resistance high gloss  | May-24 |  |
| 2010699  | PV 3974                 | Mar Resistance of Surfaces   | Apr-24 |  |
| 2010719  | PV 3991                 | Skin abrasion test   | Apr-24 |  |
| 2010693  | PV 3966                 | Stress Whitening Properties (Ball Drop Test)   | Apr-24 |  |
| 2010717  | PV 3989                 | Ball Drop Test   | Apr-24 |  |
| 2011205  | ISO 8296<br>ASTM D2578  | Plastic film -<br>Wetting tension (red test ink) <b>[NEW!]</b>                             | May-24 |  |
| 2011206  | ISO 8296<br>ASTM D2578  | Plastic surface -<br>Wetting tension (green test ink) <b>[NEW!]</b>                        | May-24 |  |

[A] = For accredited and non-accredited status please see [Online portal \(ODIN\)](#)

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## Plastics - paintwork

| Art. No. | Standard             | Proficiency testing type <sup>[A]</sup>                                       | period | To view pricing information visit our online Portal: |
|----------|----------------------|---|--------|--|
| 2010972  | ISO 2409             | Cross cutting test  | May-24 | <a href="#">Login or register</a>                    |
| 2010539  | PV 3964              | Cream resistance  | May-24 |  |
| 2010849  | DBL 5425             | Multiple stone impact test  | May-24 |  |
| 2010221  | ISO 20567-1          | Multiple stone impact test  | May-24 |  |
| 2011042  | SAE J400 (method C)  | Chip Resistance <b>[NEW!]</b>   | May-24 |  |
| 2010845  | DBL 5425             | Steam jet test  | May-24 |  |
| 2010703  | TL 211 (DIN 16925-C) | Pressure washer test  | May-24 |  |
| 2011045  | IEC 60068-2-70       | Abrasion caused by rubbing <b>[NEW!]</b>                                      | May-24 |  |
| 2010217  | PV 1200              | Environmental Cycle Test (8 cycles) (e.g. delamination, change to appearance) | May-24 |  |
| 2010541  | ISO 2808 (6A-Ver. 1) | Film thickness - Cross sectioning by grinding                                 | May-24 |  |
| 2010641  | ISO 2808 (6A-Ver.2)  | Film thickness - Cross sectioning by cutting <b>[NEW!]</b>                    | May-24 |  |
| 2010543  | DBL 5425 (A.1.17)    | Wash scratch resistance (Amtec-Kistler)                                       | May-24 |  |
| 2010545  | DBL 5425 (A.1.17)    | Wipe scratch resistance (Crockmeter)  | May-24 |  |
| 2010721  | PV 3.3.3             | Scratch Resistance of Clear Coats   | May-24 |  |

## Assessing - Change in colour / Staining / Blistering:

| Art. No. | Standard                   | Proficiency testing type <sup>[A]</sup>  | period |  |
|----------|----------------------------|--|--------|--|
| 2010026  | ISO 105 A02<br>ISO 105 A03 | Visual evaluation of colour charts (grey scale)                                | Apr-24 |  |
| 2010919  | ISO 105 A04<br>ISO 105 A05 | Instrumental assessment of colour charts <b>[NEW!]</b>                         | Apr-24 |  |
| 2010701  | ISO 4628-2                 | Degree of blistering (quantity / size) on photos using the pictorial standards | Apr-24 |  |
| 2011046  | ISO 4628-3                 | Degree of rusting <b>[NEW!]</b>  | Apr-24 |  |

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## Plastics - Light fastness / Exposure tests

| Art. No.   | Standard                            | Proficiency testing type <sup>[A]</sup>                               | period | To view pricing information visit our online Portal: |
|--|-------------------------------------|---|--------|--|
| Evaluation: Color change with grey scale and instrumentell |                                     |   |        |  |
| 2010799  | ISO 105-B06                         | Light fastness <sup>[P]</sup>   | Apr-24 | <a href="#">Login or register</a>                    |
| 2010667  | PV 1303                             | Xenon Arc Light Aging <sup>[P]</sup>                                  | Jan-24 |  |
| 2010867  | ISO 4892-2                          | Light fastness - Xenon Arc light (cycle 1) <sup>[P]</sup>             | Apr-24 |  |
| 2010866  | ASTM G155                           | Light fastness - Xenon Arc light (cycle 1) <sup>[P]</sup>             | Apr-24 |  |
| 2010868  | ISO 4892-3<br>ASTM G154             | Exposure to laboratory light -<br>Fluorescent UV lamps <sup>[P]</sup> | Apr-24 |  |
| 2010128  | PV 3929                             | Weathering (Dry, Hot) - Kalahari test <sup>[P]</sup>                  | Apr-24 |  |
| 2010130  | PV 3930                             | Weathering (Humid, Hot) - Florida test <sup>[P]</sup>                 | Apr-24 |  |
| 2010846  | DIN 75220<br>D-IN1-T<br>VDA 230-219 | Sunlight simulation <sup>[P]</sup>                                    | Apr-24 |  |
| Evaluation: Change of mechanical properties                |                                     |   |        |  |
| 2010016  | ISO 4892-2                          | Light fastness - Xenon Arc light (cycle 1)                            | Apr-24 |  |

[P] = return of the tested samples is required

## Plastics - electroplating:

| Art. No. | Standard              | Proficiency testing type <sup>[A]</sup>   | period |  |
|----------|-----------------------|---|--------|--|
| 2010239  | ISO 1456              | Coating thickness (Cu / Ni / Cr)<br>Microscopical method (ISO 1463) and<br>Coulometric method (ISO 2177) possible | May-24 |  |
| 2010241  | EN 16866<br>ASTM B764 | Individual coating thicknesses (nickel), potential<br>differences between nickel layers                           | May-24 |  |
| 2010243  | DIN 53100             | Number of micropores / microcracks<br>in chromium coating   | May-24 |  |
| 2010219  | DBL 1665              | Corrosion testing CASS (48 h)<br>including evaluation of the samples  | May-24 |  |
| 2010661  | PV 1058               | Micro-crack pattern   | May-24 |  |
| 2010663  | PV 1063               | Micropore Density   | May-24 |  |
| 2010665  | PV 1065               | Potential Differences and Layer Thicknesses of<br>Nickel  | Sep-24 |  |

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## Metals - corrosion testing:

| Art. No. | Standard                               | Proficiency testing type <sup>[A]</sup>  | period | To view pricing information visit our online Portal: |
|----------|--|--|--------|--|
|          | Reference specimens and painted plates |  |        | <a href="#">Login or register</a>                    |
| 2010820  | ISO 9227 point 5.2.2                   | Corrosion testing NSS:<br>reference specimen 48h / painted plate 480h<br>(e.g. delamination, corrosion, blistering)  | Apr-24 |  |
| 2010018  | ISO 9227 point 5.2.4                   | Corrosion testing CASS:<br>reference specimen 24h / painted plate 240h<br>(e.g. delamination, corrosion, blistering) | Apr-24 |  |
|          | Reference specimen (mass loss)         |  |        |  |
| 2010561  | ISO 9227 point 5.2.3                   | Corrosion testing AASS   | Apr-24 |  |
| 2010020  | ASTM B117                              | Salt Spray test  | Apr-24 |  |
| 2010022  | GMW 14872                              | Exterior Cyclic Corrosion  | Apr-24 |  |
|          | Steel substrates                       |  |        |  |
| 2010921  | DBL 7381.20                            | Corrosion cycle test (CCT 2 steel)<br>(e.g. corrosion, cross cut, scratch test)                                      | May-24 |  |
| 2011043  | PV 1210                                | Corrosion Test   | May-24 |  |
| 2011044  | ISO 11997-1 (Zyklus A)                 | Corrosions testing - Resistance to cyclic corrosion conditions <b>[NEW!]</b>   | May-24 |  |
| 2011047  | ISO 22479                              | Saturated atmosphere in the presence of SO <sub>2</sub> (Kesternich test) <b>[NEW!]</b>                              | May-24 |  |

## Metals - paintwork

| Art. No. | Standard | Proficiency testing type <sup>[A]</sup>                      | period |  |
|----------|----------|--|--------|--|
| 2010024  | ISO 6270 | Condensation atmosphere (CH)<br>Resistance to humidity       | Mar-24 |  |
| 2010295  | ISO 2360 | Coating thickness<br>Amplitude-sensitive eddy-current method | May-24 |  |
| 2010615  | ISO 2178 | Coating thickness - Magnetic method                          | May-24 |  |

## Metals - X-ray fluorescence analysis (XRF)

| Art. No. | Standard      | Proficiency testing type <sup>[A]</sup>                           | period |  |
|----------|---------------|---|--------|--|
| 2010171  | not specified | Determination of elements by XRF, e.g. nickel, copper, zinc, lead | Jul-24 |  |
| 2010371  | ISO 3497      | Coating thickness<br>X-ray spectrometric method                   | Mar-24 |  |

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## Metals - surfaces

### Technical Cleanliness of components

| Art. No. | Standard              | Proficiency testing type <sup>[A]</sup>  | period | To view pricing information visit our online Portal: |
|----------|-----------------------|--|--------|--|
| 2011172  | VDA 19.1<br>ISO 16232 | Cleanliness analysis<br>(gravimetric assessment)   | May-24 | <a href="#">Login or register</a>                    |
|          |                       | <ul style="list-style-type: none"> <li>- Calibration standard (aluminum particles)</li> <li>- Blank value determination before analysis</li> <li>- Liquid extraction (Spray, Ultrasonic)</li> <li>- Filtration and gravimetric analysis</li> </ul> |        |  |

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## Rubber and TPE

| Art. No. | Standard            | Proficiency testing type <sup>[A]</sup>                                | period | To view pricing information visit our online Portal: |
|----------|---------------------|--|--------|--|
| 2010727  | ISO 2781            | Density of rubber  | May-24 | <a href="#">Login or register</a>                    |
| 2010728  | ISO 37              | Tensile test (specimen type2/S2)                                       | May-24 |  |
| 2010729  | ISO 37              | Tensile test (specimen type3/S3A)                                      | May-24 |  |
| 2011033  | VDI 2019            | Adhesion of thermoplastic elastomers (TPE) on substrates <b>[NEW!]</b> | May-24 |  |
| 2010894  | ASTM D412           | Tensile test   | May-24 |  |
| 2010897  | ISO 34-1            | Tear strength - Trouser test piece                                     | May-24 |  |
| 2010761  | ISO 34-1            | Tear strength - Angle test piece (without nick)                        | May-24 |  |
| 2010760  | ISO 34-1            | Tear strength - Angle test piece (with nick)                           | May-24 |  |
| 2010895  | ISO 815             | Compression set  | May-24 |  |
| 2010900  | ISO 815-2           | Compression set at lower temperature                                   | May-24 |  |
| 2010896  | ISO 2285            | Tension set  | May-24 |  |
| 2010731  | ISO 868<br>ISO 48-4 | Hardness Shore A   | May-24 |  |
| 2010898  | ASTM D2240          | Hardness Shore A   | May-24 |  |
| 2010748  | ISO 48-2            | IRHD-Hardness - method M   | May-24 |  |
| 2010899  | ISO 48-2            | IRHD-Hardness - method N   | May-24 |  |
| 2010267  | ISO 48-4            | Hardness Shore D   | May-24 |  |
| 2010762  | ISO 4662            | Rebound resilience   | May-24 |  |
| 2010763  | ISO 4649            | Abrasion resistance  | May-24 |  |
| 2010746  | ISO 11357-2         | Glass transition of rubber   | May-24 |  |
| 2010875  | ISO 1407            | Solvent extract of rubber  | May-24 |  |
| 2010764  | ISO 289-1           | Mooney viscosity   | May-24 |  |
| 2010749  | ISO 1817            | Increase in mass (liquid B)  | May-24 |  |
| 2010750  | ISO 11358           | Thermogravimetry (TGA) - black carbon content                          | May-24 |  |

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### Rubber and TPE

| Art. No. | Standard            | Proficiency testing type <sup>[A]</sup>           | period | To view pricing information visit our online Portal: |
|----------|---------------------|---|--------|--|
| 2010269  | ISO 1431-1          | Resistance to ozone cracking                      | May-24 | <a href="#">Login or register</a>                    |
| 2010508  | ISO 188             | Accelerated ageing / heat resistance              | May-24 |  |
| 2010671  | PV 3305,<br>PV 3316 | Ozone Resistance - Permanent Deformation          | Sep-24 |  |
| 2010673  | PV 3307             | Plastic and Elastic Deformability                 | May-24 |  |
| 2010675  | PV 3330             | O-Rings - Compression Set                         | May-24 |  |
| 2010697  | PV 3973             | O-Rings - Tensile test                            | May-24 |  |
| 2010677  | PV 3366             | Seals - Wear Characteristics of Flocking          | May-24 |  |
| 2010715  | PV 3988 (4.1)       | Seals - Anti-Friction Coating - Coating thickness | Sep-24 |  |

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## Plastic films

| Art. No. | Standard                 | Proficiency testing type <sup>[A]</sup>                     | period | To view pricing information visit our online Portal:  |
|----------|--------------------------|---|--------|---|
| 2010777  | ISO 527-1/-3             | Tensile Test  | Mar-24 | <a href="#">Login or register</a>   |
| 2010970  | ISO 7765-1               | Impact resistance – free-falling dart                       | Mar-24 | <p><b>Migration testing:</b></p> <p>Proficiency Tests in the field of overall and specific migration can be found in the catalogue "consumer goods" or the online catalogue</p> |
| 2010878  | ISO 6383-1               | Tear resistance - trouser tear method                       | Mar-24 |   |
| 2010838  | ISO 6383-2<br>ASTM D1922 | Tear resistance - Elmendorf method                          | Mar-24 |   |
| 2010779  | ISO 4593                 | Film thickness  | Mar-24 |   |
| 2010780  | ISO 8295                 | Coefficients of friction (static/kinetic)                   | Mar-24 |   |
| 2010879  | ISO 11339                | T-peel test   | Mar-24 |   |
| 2010880  | DIN 55529                | Sealed-seam strength  | Mar-24 |   |
| 2010847  | ISO 15106-3              | Water vapour transmission rate                              | Mar-24 |   |
| 2010844  | ISO 15105-2              | Gas transmission rate                                       | Mar-24 |   |
| 2010518  | ISO 15106-2              | Water vapour transmission rate (IR sensor)<br><b>[NEW!]</b> | Mar-24 |   |
| 2010781  | ISO 14782                | Transparency/Haze   | Mar-24 |   |
| 2010012  | DIN 55543-5              | Adhesion strength   | Mar-24 |   |
| 2010312  | not specified            | Identification of multi layer films                         | Mar-24 |   |
| 2010115  | not specified            | Identification of mono layer films                          | Sep-24 |   |
| 2011205  | ISO 8296<br>ASTM D2578   | Wetting tension (red test ink)                              | May-24 |   |

## Plastic pipes / pipe materials (PE)

| Art. No. | Standard      | Proficiency testing type <sup>[A]</sup> | period |  |
|----------|---------------|---|--------|--|
| 2010792  | ISO 1167-1/-2 | Resistance to internal pressure         | Mar-24 |  |
| 2010890  | ISO 17454     | Adhesion of multilayer pipes            | Mar-24 |  |
| 2010891  | ISO 9969      | Thermoplastics pipes - ring stiffness   | Mar-24 |  |
| 2010980  | not specified | Wall thickness of plastic pipes         | Mar-24 |  |
| 2010004  | ISO 16770     | Full-notch creep test [FNCT]            | Apr-24 |  |
| 2010118  | ISO 18488     | Strain Hardening Modulus                | Apr-24 |  |
| 2010120  | ISO 18489     | Crack growth - cracked round bar        | Apr-24 |  |
| 2010529  | ISO 10147     | Degree of crosslinking of PE-X          | Apr-24 |  |

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### Foams (ISO / DBL / ASTM)

| Art. No. | Standard               | Proficiency testing type <sup>[A]</sup> | period | To view pricing information visit our online Portal: |
|----------|------------------------|---|--------|--|
| 2010848  | ISO 845                | Apparent density                        | Apr-24 | <a href="#">Login or register</a>                    |
| 2010829  | ISO 1798               | Tensile test                            | Apr-24 |  |
| 2010034  | ISO 8067               | Tear strength (method B)                | Apr-24 |  |
| 2010730  | ISO 1856               | Compression set                         | Apr-24 |  |
| 2010036  | ISO 3385               | Fatigue constant-load pounding          | Apr-24 |  |
| 2010831  | ISO 3386-1<br>DBL 5452 | Compression stress value CV40           | Apr-24 |  |
| 2010038  | ISO 2439               | Hardness (indentation)                  | Apr-24 |  |
| 2010874  | DBL 5307 FMVSS<br>302  | Burning rate                            | Apr-24 |  |
| 2010040  | ASTM D3574<br>Test B1  | Indentation Force Deflection Test       | Apr-24 |  |
| 2010042  | ASTM D3574<br>Test C   | Compression Force                       | Apr-24 |  |
| 2010044  | ASTM D3574<br>Test D   | Compression Set                         | Apr-24 |  |
| 2010046  | ASTM D3574<br>Test E   | Tensile Test                            | Apr-24 |  |
| 2010048  | ASTM D3574<br>Test F   | Tear Resistance                         | Apr-24 |  |
| 2010050  | ASTM D3574<br>Test I3  | Fatigue - Constant Force Pounding       | Apr-24 |  |
| 2010052  | ASTM D3574<br>Test J   | Steam Autoclave Aging                   | Apr-24 |  |
| 2010054  | ASTM D3574<br>Test K   | Dry Heat Aging                          | Apr-24 |  |
| 2010152  | ASTM D3574<br>Test L   | Wet Heat Aging                          | Apr-24 |  |
| 2010412  | ASTM D3574<br>Test N   | Hysteresis Loss                         | Apr-24 |  |
| 2010687  | PV 3937                | Amine Emissions                         | Apr-24 |  |

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## Paper | Board [NEW!]

| Art. No. | Standard          | Proficiency testing type <sup>[A]</sup>               | period | To view pricing information visit our online Portal: |
|----------|-------------------|---|--------|--|
| 2010058  | EN 310 / DBL 5472 | Board - Modulus in bending and bending strength       | Apr-24 | <a href="#">Login or register</a>                    |
| 2011024  | ISO 2528          | Sheet materials - Water vapour transmission rate      | Oct-24 |  |
| 2011025  | ISO 535           | Paper and board - Water absorptiveness (Cobb)         | Oct-24 |  |
| 2011026  | ISO 5636-3        | Paper and board - Air permeance (Bendtsen)            | Oct-24 |  |
| 2011027  | ISO 5636-5        | Paper and board - Air permeance (Gurley)              | Oct-24 |  |
| 2011028  | ISO 536           | Paper and board - Grammage                            | Oct-24 |  |
| 2011029  | ISO 534           | Paper and board - Thickness, density, specific volume | Oct-24 |  |
| 2011030  | ISO 12625-3       | Tissue products - Thickness                           | Oct-24 |  |
| 2011031  | ISO 12625-8       | Tissue products - Water-absorption capacity           | Oct-24 |  |
| 2011032  | ISO 12625-6       | Tissue products - Grammage                            | Oct-24 |  |

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## Composites - Fibre-reinforced plastics

| Art. No. | Standard            | Proficiency testing type <sup>[A]</sup>                          | period | To view pricing information visit our online Portal: |
|----------|---------------------|--|--------|--|
| 2010971  | EN 59<br>ASTM D2583 | Barcol hardness  | May-24 | <a href="#">Login or register</a>                    |
| 2010060  | EN 2564             | Fibre-, resin- and void contents                                 | May-24 |  |
| 2010726  | ISO 14125           | Flexural properties  | May-24 |  |
| 2010724  | ISO 14126           | Compressive properties   | May-24 |  |
| 2010725  | ISO 14129           | 45° tension test method  | May-24 |  |
| 2010772  | ISO 14130           | Apparent interlaminar shear strength                             | May-24 |  |
| 2010723  | ISO 527-1/-4        | Tensile test (isotropy, anisotropy)                              | May-24 |  |
| 2010768  | ISO 527-1/-5        | Tensile test (unidirectional)                                    | May-24 |  |
| 2010522  | ASTM D5379          | Shear Properties (V-Notched Beam) <b>[NEW!]</b>                  | May-24 |  |
| 2011048  | ASTM D7078          | Rail Shear Method <b>[NEW!]</b>                                  | May-24 |  |
| 2010524  | ISO 13003           | Fatigue properties under cyclic loading conditions <b>[NEW!]</b> | May-24 |  |
| 2010062  | ISO 2555            | Apparent viscosity   | May-24 |  |
| 2010068  | ISO 3219            | Viscosity rotational viscometer                                  | May-24 |  |

## GRP pipes / cured-in-place pipes (CIPP) - Fibre-reinforced plastics

| Art. No. | Standard               | Proficiency testing type <sup>[A]</sup>                                  | period |  |
|----------|------------------------|--|--------|--|
| 2010533  | ASTM D638              | Tensile test <b>[NEW!]</b>   | May-24 |  |
| 2010535  | ASTM D790              | Flexural test <b>[NEW!]</b>  | May-24 |  |
| 2010537  | ISO 11296-4<br>annex B | Short-term flexural properties <b>[NEW!]</b><br>(ASTM F2019 appendix X2) | May-24 |  |

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## Geosynthetics (geomembrane)

| Art. No. | Standard     | Proficiency testing type <sup>[A]</sup>   | period | To view pricing information visit our online Portal: |
|----------|--------------|---|--------|--|
| 2010901  | ISO 527-1/-3 | Tensile test geosynthetics                | Mar-24 | <a href="#">Login or register</a>                    |
| 2010902  | ASTM D6693   | Tensile Properties of PE/PP Geomembranes  | Mar-24 |  |
| 2010903  | ASTM D1004   | Tear Resistance (Graves Tear)             | Mar-24 |  |
| 2010904  | ISO 12236    | Static puncture Test (CBR-Test)           | Mar-24 |  |
| 2010912  | DIN EN 14576 | Stress Crack Resistance                   | Mar-24 |  |
| 2010906  | ISO 9863-1   | Thickness at specified pressures (20 kPa) | Mar-24 |  |
| 2010909  | EN 1107-2    | Dimensional stability                     | Mar-24 |  |
| 2010759  | ISO 11358    | Carbon black content (TGA)                | Mar-24 |  |
| 2010876  | ASTM D4218   | Carbon black content (muffle-furnace)     | Mar-24 |  |
| 2010877  | ASTM D5596   | Dispersion of Carbon Black                | Mar-24 |  |

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## Textiles - Fabric properties - part I

| Art. No. | Standard             | Proficiency testing type <sup>[A]</sup>   | period | To view pricing information visit our online Portal: |
|----------|----------------------|---|--------|--|
| 2010733  | EN 12127<br>ISO 3801 | Mass per unit area:<br>natural or synthetic fibre materials<br>both climats 23/50 or 20/65 possible | May-24 | <a href="#">Login or register</a>                    |
| 2010983  | freely selectable    | Construction of fabric - woven and knitted fabric:<br>number of threads / wales / course            | May-24 |  |
| 2010732  | ISO 9073-2           | Thickness of nonwovens  | May-24 |  |
| 2010070  | ISO 9073-4           | Tear resistance nonwovens   | May-24 |  |
| 2010635  | ISO 9073-3           | Tensile properties of nonwovens   | May-24 |  |
| 2010734  | ISO 13934-1          | Tensile properties - strip method   | May-24 |  |
| 2010837  | ISO 13934-2          | Tensile properties - grab method  | May-24 |  |
| 2010778  | ISO 13937-1          | Tear properties - Elmendorf method  | May-24 |  |
| 2010800  | ISO 13937-2          | Tear properties - trouser shaped specimen   | May-24 |  |
| 2010801  | ISO 13937-3          | Tear properties - wing shaped specimen  | May-24 |  |
| 2010802  | ISO 12947-2          | Abrasion resistance - Martindale  | May-24 |  |
| 2010637  | ISO 12947-3          | Abrasion resistance Martindale (mass loss)  | May-24 |  |
| 2010803  | ISO 12945-1          | Pilling properties - Pilling box  | May-24 |  |
| 2010804  | ISO 12945-2          | Pilling properties - Martindale   | May-24 |  |
| 2010841  | ISO 13936-1          | Slippage resistance of yarns - Fixed seam opening   | May-24 |  |
| 2011103  | ISO 13936-2          | Slippage resistance of yarns - Fixed load   | May-24 |  |
| 2010072  | ISO 13935-1          | Maximum force seam (strip method)   | May-24 |  |
| 2011177  | ISO 13935-2          | Maximum force seam (grab method) <b>[NEW!]</b>  | May-24 |  |
| 2010842  | ISO 13938-2          | Bursting strength and bursting distension   | May-24 |  |
| 2010751  | ISO 3071             | PH value of textiles  | May-24 |  |
| 2010973  | DIN 54278-1          | Determination of materials soluble in organic solvents  | May-24 |  |

[A] = For accredited and non-accredited status please see [Online portal \(ODIN\)](#)

For your registration we recommend to use our online catalogue (ODIN) or the registration forms on our homepage ([www.DRRR.de](http://www.DRRR.de)). You can also use the registration forms on page 45 of this catalogue.

## Textiles - Fabric properties - part II

| Art. No. | Standard    | Proficiency testing type <sup>[A]</sup>  | period | To view pricing information visit our online Portal: |
|----------|-------------|--|--------|--|
| 2011178  | ISO 16322-2 | Spirality after laundering <b>[NEW!]</b> | May-24 | <a href="#">Login or register</a>                    |
| 2011179  | ISO 15487   | Self-flatness behavior <b>[NEW!]</b>     | May-24 |  |

## Textiles - Automotive testing

| Art. No. | Standard | Proficiency testing type <sup>[A]</sup>        | period | To view pricing information visit our online Portal: |
|----------|----------|--|--------|--|
| 2010669  | PV 2034  | Floating Roller Peel Test                      | Jan-24 |  |
| 2010679  | PV 3906  | Abrasion Behavior                              | May-24 |  |
| 2010681  | PV 3908  | Wear Resistance                                | May-24 |  |
| 2010683  | PV 3909  | Static and Permanent Elongation                | May-24 |  |
| 2010685  | PV 3922  | Oil- and Water-Repellent Behavior              | May-24 |  |
| 2010689  | PV 3955  | Trim Cover Material - Seam Slippage Resistance | Jan-24 |  |
| 2010691  | PV 3961  | Trim Cover Material - Hook Fastener Test       | Jan-24 |  |

## Textiles - Determination of fibre blends

| Art. No. | Standard      | Proficiency testing type <sup>[A]</sup>                        | period |  |
|----------|---------------|--|--------|--|
| 2010974  | not specified | Qualitative determination of a fibre blend                     | May-24 |  |
| 2010737  | ISO 1833-11   | Quantitative determination of a fibre blend (PES-CO)           | May-24 |  |
| 2010776  | ISO 1833-12   | Quantitative determination of a fibre blend (Acrylic fibres)   | May-24 |  |
| 2010738  | ISO 1833-4    | Quantitative determination of a fibre blend (Protein fibres)   | May-24 |  |
| 2010739  | ISO 1833-6    | Quantitative determination of a fibre blend (Viscose fibres)   | May-24 |  |
| 2010740  | ISO 1833-7    | Quantitative determination of a fibre blend (Polyamide fibres) | May-24 |  |

**[A]** = For accredited and non-accredited status please see [Online portal \(ODIN\)](#)

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## Textiles - Functional properties

| Art. No. | Standard              | Proficiency testing type <sup>[A]</sup>                                | period | To view pricing information visit our online Portal: |
|----------|-----------------------|--|--------|--|
| 2010805  | Diffuse / 8°-geometry | Colour measurement - $\Delta E$ , $\Delta L$ , $\Delta a$ , $\Delta b$ | May-24 | <a href="#">Login or register</a>                    |
| 2010806  | acc. to Ganz          | Whiteness measurement  | May-24 |  |
| 2010839  | ISO 811               | Hydrostatic pressure test  | May-24 |  |
| 2010840  | ISO 5077   ISO 6330   | Dimensional change in washing (drying method F)                        | May-24 |  |
| 2010807  | ISO 15797             | Industrial washing and colour change (method 2 peracetic acid bleach)  | May-24 |  |
| 2010832  | ISO 9237              | Permeability of fabrics to air   | May-24 |  |
| 2010995  | ISO 11092             | Thermal and water vapour resistance                                    | May-24 |  |
| 2010237  | ASTM E96 (BW)         | Water Vapor Transmission (WVT)   | May-24 |  |
| 2010074  | ISO 4920 / AATCC 22   | Spray test - surface wetting   | May-24 |  |
| 2010319  | EN 29865              | Bundesmann Rain-shower test  | May-24 |  |
| 2010092  | ISO 14419             | Oil repellency   | May-24 |  |
| 2010514  | EN 13758-1            | Solar UV protective properties   | May-24 |  |

## Textiles - burning behaviour

| Art. No. | Standard               | Proficiency testing type <sup>[A]</sup>                       | period |  |
|----------|------------------------|---|--------|--|
| 2010808  | DIN 75200/ FMVSS 302   | Burning rate of textiles                                      | May-24 |  |
| 2011175  | UN/ECE R118 appendix 8 | Vertical burning rate <b>[NEW!]</b>                           | May-24 |  |
| 2011176  | ISO 6941               | Burning behaviour vertically oriented specimens <b>[NEW!]</b> | May-24 |  |

## Individual fibres

| Art. No. | Standard | Proficiency testing type <sup>[A]</sup>                    | period |  |
|----------|----------|--|--------|--|
| 2010975  | ISO 1973 | Linear density (4,4dtex to 15dtex)                         | May-24 |  |
| 2010976  | ISO 5079 | Breaking force and elongation at break (4,4dtex to 15dtex) | May-24 |  |

[A] = For accredited and non-accredited status please see [Online portal \(ODIN\)](#)



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## Textiles - Colour fastness

| Art. No. | Standard        | Proficiency testing type <sup>[A]</sup>               | period | To view pricing information visit our online Portal: |
|----------|-----------------|---|--------|--|
| 2010809  | ISO 105-B02     | Colour fastness to light - Xenon arc                  | Oct-24 | <a href="#">Login or register</a>                    |
| 2010810  | ISO 105-B04     | Colour fastness to light - Xenon arc                  | Oct-24 |  |
| 2010510  | ISO 105-B07     | Colour fastness to light - artificial perspiration    | Oct-24 |  |
| 2010833  | ISO 105-C06/C2S | Colour fastness to washing 60°                        | Oct-24 |  |
| 2010735  | ISO 105-X12     | Colour fastness to rubbing - Crockmeter               | Oct-24 |  |
| 2010834  | ISO 105-C08     | Colour Fastness to washing                            | Oct-24 |  |
| 2010629  | ISO 105-C10     | Colour fastness to washing with soap or soap and soda | Oct-24 |  |
| 2010835  | ISO 105-D01     | Colour Fastness to dry cleaning                       | Oct-24 |  |
| 2010512  | ISO 105-D02     | Colour fastness to rubbing - organic solvents         | Oct-24 |  |
| 2010752  | ISO 105-E01     | Colour Fastness to water                              | Oct-24 |  |
| 2010223  | ISO 105-E02     | Colour Fastness to sea water                          | Oct-24 |  |
| 2010229  | ISO 105-E03     | Colour Fastness to chlorinated water                  | Oct-24 |  |
| 2010736  | ISO 105-E04     | Colour Fastness to perspiration                       | Oct-24 |  |
| 2010992  | ISO 105-E06     | Colour fastness to spotting: Alkali                   | Oct-24 |  |
| 2010633  | ISO 105-N01     | Colour fastness to bleaching; hypochlorite            | Oct-24 |  |
| 2010917  | ISO 105-N02     | Colour fastness to bleaching; peroxide                | Oct-24 |  |
| 2010993  | ISO 105-P01     | Colour fastness by dry heat                           | Oct-24 |  |
| 2010231  | ISO 105-X05     | Colour fastness to organic solvents                   | Oct-24 |  |
| 2010235  | ISO 105-X11     | Colour fastness to hot pressing                       | Oct-24 |  |

[A] = For accredited and non-accredited status please see [Online portal \(ODIN\)](#)

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## Leather

| Art. No. | Standard           | Proficiency testing type <sup>[A]</sup>            | period | To view pricing information visit our online Portal: |
|----------|--------------------|--|--------|--|
| 2010770  | DBL 5307 FMVSS 302 | Leather - burning rate                             | Apr-24 | <a href="#">Login or register</a>                    |
| 2011038  | ISO 105-B02        | Colour fastness to light - Xenon arc <b>[NEW!]</b> | Apr-24 |  |
| 2010028  | ISO 3376           | Tensile test (strenght, extension)                 | Apr-24 |  |
| 2010030  | ISO 3377-1         | Tear load - single edge tear                       | Apr-24 |  |
| 2010032  | ISO 3377-2         | Tear load - double edge tear                       | Apr-24 |  |
| 2010066  | ISO 2589           | Thickness  | Apr-24 |  |
| 2010713  | ISO 11640          | Colour fastness to cycles of rubbing               | Apr-24 |  |
| 2010709  | ISO 17186          | Surface coating thickness                          | Apr-24 |  |
| 2010516  | VDA 270            | Odour test (variant D4 and D5)                     | Apr-24 |  |
| 2010645  | ISO 4045           | pH value and difference figure                     | Apr-24 |  |
| 2010643  | ISO 11641          | Colour fastness to perspiration                    | Apr-24 |  |
| 2010647  | ISO 11642          | Colour fastness to water                           | Apr-24 |  |
| 2011173  | ISO 14268          | Water vapour permeability <b>[NEW!]</b>            | Apr-24 |  |
| 2010695  | PV 3968            | Soiling Behavior                                   | Apr-24 |  |

Proficiency Tests for chemical leather testing can be found in the catalogue "consumer goods" or the online catalogue: e.g. metal content, preservatives, formaldehyde, chlorophenols, volatile substances, organotin compounds

**[A]** = For accredited and non-accredited status please see [Online portal \(ODIN\)](#)

For your registration we recommend to use our online catalogue (ODIN) or the registration forms on our homepage ([www.DRRR.de](http://www.DRRR.de)). You can also use the registration forms on page 45 of this catalogue.

## Coated fabrics

| Art. No. | Standard   | Proficiency testing type <sup>[A]</sup>        | period | To view pricing information visit our online Portal: |
|----------|------------|--|--------|--|
| 2010990  | ISO 32100  | Flex resistance (flexometer method)            | May-24 | <a href="#">Login or register</a>                    |
| 2010991  | ISO 1421   | Tensile strength and elongation at break       | May-24 |  |
| 2011050  | ISO 2411   | Coating adhesion                               | May-24 |  |
| 2010631  | ISO 4674-1 | Tear resistance (method B)                     | May-24 |  |
| 2010150  | ISO 2286-3 | Thickness                                      | May-24 |  |
| 2010086  | ISO 7854-A | Resistance to damage by flexing (De Mattia)    | May-24 |  |
| 2010088  | ISO 7854-C | Resistance to damage by flexing (crumple/flex) | May-24 |  |
| 2010090  | ISO 5470-2 | Abrasion resistance (Martindale)               | May-24 |  |

## Chemical textile testing:

Further Proficiency Tests for chemical textile testing can be found in the catalogue "consumer goods" or the online catalogue: e.g. heavy metals, formaldehyde, flame retardants, azo dyes, pesticides, chlorophenols, phthalates, PAH, organotin compounds

## Microbiology textile

| Art. No. | Standard             | Proficiency testing type <sup>[A]</sup>    | period |  |
|----------|----------------------|--|--------|--|
| 2010076  | AATCC 100            | Antimicrobial Fabric Test                  | May-24 |  |
| 2010078  | AATCC 147            | Antibacterial Parallel Streak              | May-24 |  |
| 2010080  | ISO 20743 / AATCC 90 | Antibacterial Activity                     | May-24 |  |
| 2010082  | EN 16615             | 4-field test / microbial reduction textile | May-24 |  |

[A] = For accredited and non-accredited status please see [Online portal \(ODIN\)](#)

## Proficiency tests - Personal protective equipment (PPE)

For your registration we recommend to use our online catalogue (ODIN) or the registration forms on our homepage ([www.DRRR.de](http://www.DRRR.de)). You can also use the registration forms on page 45 of this catalogue.

In cooperation with:



### Protective clothing (general)

| Art. No. | Standard  | Proficiency testing type <sup>[A]</sup>                             | period | To view pricing information visit our online Portal: |
|----------|-----------|---|--------|--|
| 2010094  | EN 863    | Puncture resistance   | May-24 | <a href="#">Login or register</a>                    |
| 2010096  | EN 1149-1 | Surface resistivity   | May-24 |  |
| 2010098  | EN 1149-2 | Vertical resistance   | May-24 |  |
| 2010100  | EN 1149-3 | Charge decay  | May-24 |  |
| 2010102  | ISO 15025 | Limited flame spread  | May-24 |  |
| 2010104  | ISO 9185  | Resistance to molten metal splash                                   | May-24 |  |
| 2011182  | ISO 6530  | Resistance of materials to penetration by liquids <b>[NEW!]</b>     | May-24 |  |
| 2011183  | ISO 17493 | Convective heat resistance (hot air circulating oven) <b>[NEW!]</b> | May-24 |  |

### Protective and medical gloves

|         |           |   |        |  |
|---------|-----------|---|--------|--|
| 2010639 | EN 388    | Mechanical risks                          | May-24 |  |
| 2011036 | ISO 13997 | Resistance to cutting                     | May-24 |  |
| 2011180 | ISO 21420 | Length and finger dexterity <b>[NEW!]</b> | May-24 |  |
| 2011037 | EN 455-2  | Medical gloves - Dimensions <b>[NEW!]</b> | May-24 |  |

### Filtering half masks

| Art. No. | Standard  | Proficiency testing type <sup>[A]</sup>                        | period |  |
|----------|-----------|--|--------|--|
| 2010551  | EN 149+A1 | Particle filter penetration (EN 13274-7)                       | May-24 |  |
| 2010321  | EN 14683  | Face masks - bacterial filter efficiency / pressure difference | May-24 |  |
| 2010621  | EN 14683  | Face masks - Splash Resistance (ISO 22609)                     | May-24 |  |

[A] = For accredited and non-accredited status please see [Online portal \(ODIN\)](#)

## Proficiency tests - Personal protective equipment (PPE)

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In cooperation with:



### High visibility clothing (ISO 20471)

| Art. No. | Standard        | Proficiency testing type <sup>[A]</sup>                        | period | To view pricing information visit our online Portal: |
|----------|-----------------|--|--------|--|
| 2010106  | ISO 20471 / 5.1 | Color measurement (background material)<br><b>[NEW!]</b>       | May-24 | <a href="#">Login or register</a>                    |
| 2010108  | ISO 20471 / 6.1 | Retroreflection of (retroreflective material)<br><b>[NEW!]</b> | May-24 |  |

### Microplastics from textile sources

| Art. No. | Standard                  | Proficiency testing type <sup>[A]</sup>                       | period |  |
|----------|---------------------------|---|--------|--|
| 2010625  | ISO 4484-1<br>AATCC TM212 | Material loss from fabrics during washing<br><b>[NEW!]</b>    | May-24 |  |
| 2011174  | ISO 4484-2                | Qual. and quant. evaluation of microplastics<br><b>[NEW!]</b> | May-24 |  |

### Earplugs

| Art. No. | Standard | Proficiency testing type <sup>[A]</sup> | period |  |
|----------|----------|---|--------|--|
| 2011181  | EN 352-2 | Sound attenuation <b>[NEW!]</b>         | May-24 |  |

[A] = For accredited and non-accredited status please see [Online portal \(ODIN\)](#)

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## Environmental testing

| Art. No. | Standard                         | Proficiency testing type <sup>[A]</sup>                             | period | To view pricing information visit our online Portal: |
|----------|----------------------------------|---|--------|--|
| 2011035  | IEC 60068-2-6<br>IEC 60068-2-64  | Vibration - sinusoidal / broadband random                           | Feb-24 | <a href="#">Login or register</a>                    |
| 2011107  | IEC 60068-2-6<br>IEC 60068-2-64  | Vibration - sinusoidal / broadband random (round 2)                 | May-24 |  |
| 2011034  | IEC 60068-2-27                   | Shock   | May-24 |  |
| 2011194  | IEC 60068-2-14                   | Change of temperature (temperature range 25°C – 55°C) <b>[NEW!]</b> | Mar-24 |  |
| 2011195  | IEC 60068-2-30<br>IEC 60068-2-38 | Damp heat and temperature/humidity cyclic <b>[NEW!]</b>             | Apr-24 |  |

## Electromagnetic compatibility (EMC)

| Art. No. | Standard  | Proficiency testing type <sup>[A]</sup>                     | period |  |
|----------|---|---|--------|--|
|          | Radiated Emission:  |   |        |  |
| 2011065  | RTCA DO-160 (section 21)<br>ABD0100.1.2 (section 3.4.5)<br>BOEING D6-36440              | Emission of Radio Frequency Energy                          | May-24 | 2 MHz - 6 GHz  |
| 2011066  | MIL-STD461 (RE102)<br>AECTP 500 (NRE02)<br>VG95373-12 (SA04G)                           | Radiated Emissions - Electric Field                         | Jul-24 | 10 kHz - 18 GHz  |
| 2011070  | IACS E10 (No. 19)<br>DNV-CG-0339 (section 14.11)<br>Lloyd's Register No. 1 (section 29) | Radiated emission (E-Field)                                 | May-24 | 30 MHz - 6 GHz   |
| 2011072  | CISPR 25  | Radiated emissions assemblies - Anechoic chamber            | Jul-24 | 150 kHz - 2.5 GHz  |
| 2011074  | UN ECE R10 (6.5) / (6.6)  | Broadband and Narrowband electromagnetic interference (ESA) | Jul-24 | 30 MHz - 1 GHz (BB and NB)                                       |
| 2011075  | EMV06 (Annex E)   | Radio compatibility - Measurement on devices                | May-24 | 0,3 m and 0,7 m band<br>Antenna distance 3 m                     |
| 2010931  | CISPR 16-2-3<br>EN 55016-2-3<br>EN 55011  | Radiated disturbance  | May-24 | 30 MHz - 6 GHz<br>Antenna distance 3 m<br>(EN 55011 up to 1 GHz) |

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## Electromagnetic compatibility (EMC)

| Art. No. | Standard  | Proficiency testing type <sup>[A]</sup>                     | period | To view pricing information visit our online Portal:                                       |
|----------|---|---|--------|--|
|          | Radiated Susceptibility:  |   |        | <a href="#">Login or register</a>  |
| 2011077  | RTCA DO-160 (section 20)<br>ABD0100.1.2 (section 3.3.3)<br>BOEING D6-36440          | Radio Frequency Susceptibility (Radiated)                   | May-24 | 100 MHz - 8 GHz<br>Test level: Cat R   |
| 2011078  | MIL-STD461 (RS103)<br>AECTP 500 (NRS02)   | Radiated susceptibility - electric field                    | Jul-24 | 2 MHz - 40 GHz  <br>Test level: 50 V/m   |
| 2011080  | VG95373-13 (SF03G)  | Immunity to radiated disturbances                           | Jul-24 | 30 MHz - 1 GHz<br>Test level: 20 V/m (GK 3)<br>1 GHz - 40 GHz<br>Test level: 63 V/m (GK 3) |
| 2011082  | IACS E10 (No. 14)<br>DNV-CG-0339 (section 14.8)<br>Lloyd's Register No. 1 (sec. 24) | Immunity to Radiated Radio Frequency Fields                 | May-24 | 80 MHz - 6 GHz  <br>Limit value / test level: 10 V/m                                       |
| 2011084  | ISO 11452-2   | Electrical disturbances - Absorber-lined shielded enclosure | Jul-24 | 200 MHz - 18 GHz   Limit value / test level: up to 100 V/m                                 |
| 2011085  | UN ECE R10 (6.8)  | Immunity (ESA) - electromagnetic radiation - free field     | Jul-24 | 20 MHz - 2000 MHz  <br>Limit value / test level: 30 V/m                                    |

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## Electromagnetic compatibility (EMC)

| Art. No. | Standard                                 | Proficiency testing type <sup>[A]</sup>                        | period | To view pricing information visit our online Portal:<br><a href="#">Login or register</a> |
|----------|--|--|--------|---|
|          | Conducted Emission / disturbance:        |  |        | <a href="#">Login or register</a>   |
| 2011054  | CISPR 16-2-1<br>EN 55016-2-1<br>EN 55011 | Conducted disturbance  | Sep-24 |   |
| 2011055  | IEC 61000-4-2                            | Electrostatic discharge immunity                               | Sep-24 |   |
| 2010933  | IEC 61000-4-3                            | Radiated, radio-frequency, electromagnetic field immunity      | Sep-24 |   |
| 2011057  | IEC 61000-4-4                            | Electrical fast transient immunity                             | Sep-24 |   |
| 2011058  | IEC 61000-4-5                            | Surge immunity   | Sep-24 |   |
| 2011059  | IEC 61000-4-6                            | Immunity to conducted disturbances (radio-frequency fields)    | Sep-24 |   |
| 2011060  | IEC 61000-4-8                            | Power frequency magnetic field immunity                        | Sep-24 |   |
| 2011061  | IEC 61000-4-9                            | Impulse magnetic field immunity                                | Sep-24 |   |
| 2011062  | IEC 61000-4-10                           | Damped oscillatory magnetic field immunity                     | Sep-24 |   |
| 2011063  | IEC 61000-4-11                           | Voltage dips, short interruptions, voltage variations immunity | Sep-24 |   |

[A] = For accredited and non-accredited status please see Online portal (ODIN)



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## Hardened concrete

| Art. No. | Standard                 | Proficiency testing type <sup>[A]</sup>          | period | To view pricing information visit our online Portal: |
|----------|--------------------------|--|--------|--|
| 2010288  | EN 12390-3<br>EN 12390-7 | Density / Compressive strength                   | Dec-24 | <a href="#">Login or register</a>                    |
| 2010290  | EN 12390-5               | Flexural strength<br>(2-point load application)  | Dec-24 |  |
| 2010589  | EN 12390-6               | Tensile splitting strength                       | Dec-24 |  |
| 2010591  | EN 12390-8               | Depth of penetration of water under pressure     | Dec-24 |  |
| 2010274  | EN 12390-9               | Freeze thaw resistance-scaling<br>(plate method) | Dec-24 |  |
| 2010205  | EN 14629                 | Chloride content                                 | Dec-24 |  |
| 2010270  | EN 450-1                 | Fly ash - Mass percentage of reactive CaO        | Dec-24 |  |

## Fresh concrete

[sample preparation by the participant]

| Art. No. | Standard            | Proficiency testing type <sup>[A]</sup>   | period |  |
|----------|---------------------|---|--------|--|
| 2010593  | EN 12350-4,-5,-6,-7 | Degree of compactability, flow table test, density and air content - pressure methods <b>[NEW!]</b> | Dec-24 |  |

## Cement

| Art. No. | Standard  | Proficiency testing type <sup>[A]</sup>                      | period |  |
|----------|-----------|--|--------|--|
| 2010284  | EN 196-1  | Determination of strength                                    | Nov-24 |  |
| 2010266  | EN 196-2  | Chloride content   | Nov-24 |  |
| 2010268  | EN 196-2  | Loss of ignition   | Nov-24 |  |
| 2010569  | EN 196-2  | Total sulphate content                                       | Nov-24 |  |
| 2010595  | EN 196-3  | Setting times / soundness                                    | Nov-24 |  |
| 2010597  | EN 196-6  | Fineness   | Nov-24 |  |
| 2011184  | EN 196-10 | Water-soluble chromium (VI)                                  | Nov-24 |  |
| 2011039  | EN 12467  | Fibre-cement flat sheets - density and bending <b>[NEW!]</b> | Nov-24 |  |

[A] = For accredited and non-accredited status please see [Online portal \(ODIN\)](#)

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## Mortar for masonry

[sample preparation by the participant]

| Art. No. | Standard          | Proficiency testing type <sup>[A]</sup>                   | period | To view pricing information visit our online Portal: |
|----------|-------------------|---|--------|--|
| 2010599  | EN 1015-1         | Particle size distribution (by sieve analysis)            | Dec-24 | <a href="#">Login or register</a>                    |
| 2010601  | EN 1015-3, -6, -7 | Consistence, bulk density and air content of fresh mortar | Dec-24 |  |
| 2010276  | EN 1015-10        | Dry bulk density  | Dec-24 |  |
| 2010298  | EN 1015-11        | Flexural and compressive strength                         | Dec-24 |  |
| 2010300  | EN 1015-12        | Adhesive strength of hardened mortars                     | Dec-24 |  |

## Screed mortar

[sample preparation by the participant]

| Art. No. | Standard   | Proficiency testing type <sup>[A]</sup> | period |  |
|----------|------------|---|--------|--|
| 2010302  | EN 13892-2 | Flexural and compressive strength       | Dec-24 |  |

## Masonry units [NEW!]

| Art. No. | Standard  | Proficiency testing type <sup>[A]</sup>   | period |  |
|----------|-----------|---|--------|--|
| 2010603  | EN 772-1  | Compressive strength                      | Nov-24 |  |
| 2010605  | EN 772-21 | Water absorption by cold water absorption | Nov-24 |  |

## Mineral building materials

| Art. No. | Standard  | Proficiency testing type                          | period |  |
|----------|-----------|---|--------|--|
| 2010571  | ISO 12570 | Moisture content - drying at elevated temperature | Dec-24 |  |
| 2010573  | ISO 12571 | Hygroscopic sorption properties                   | Dec-24 |  |

[A] = For accredited and non-accredited status please see [Online portal \(ODIN\)](#)

For your registration we recommend to use our online catalogue (ODIN) or the registration forms on our homepage ([www.DRRR.de](http://www.DRRR.de)). You can also use the registration forms on page 45 of this catalogue.

## Aggregates

| Art. No. | Standard              | Proficiency testing type <sup>[A]</sup>                     | period | To view pricing information visit our online Portal: |
|----------|-----------------------|---|--------|--|
| 2010611  | EN 933-1              | Particle size distribution - Sieving method                 | Nov-24 | <a href="#">Login or register</a>                    |
| 2010613  | EN 933-4              | Particle shape - Shape index                                | Nov-24 |  |
| 2011185  | EN 933-9              | Fines - Methylene blue test <b>[NEW!]</b>                   | Nov-24 |  |
| 2011186  | EN 933-10             | Fines - Grading of filler aggregates <b>[NEW!]</b>          | Nov-24 |  |
| 2010575  | EN 1097-3             | Loose bulk density and voids                                | Nov-24 |  |
| 2010579  | EN 1097-6             | Particle density and water absorption                       | Nov-24 |  |
| 2010581  | EN 1744-1 (cl. 7)     | Water-soluble chloride salts - Volhard method               | Nov-24 |  |
| 2011187  | EN 1744-1 (cl. 8)     | Water-soluble chloride salts - potentiometrie <b>[NEW!]</b> | Nov-24 |  |
| 2010583  | EN 1744-1 (cl. 11+12) | Total sulfur content, Acid soluble sulfates                 | Nov-24 |  |

## Bituminous mixtures & Bitumen

| Art. No. | Standard   | Proficiency testing type <sup>[A]</sup>                          | period |  |
|----------|------------|--|--------|--|
| 2011191  | EN 12697-1 | Bituminous mixtures - Soluble binder content <b>[NEW!]</b>       | Dec-24 |  |
| 2011192  | EN 1426    | Bitumen - needle penetration <b>[NEW!]</b>                       | Dec-24 |  |
| 2011193  | EN 1427    | Bitumen - softening point <b>[NEW!]</b>                          | Dec-24 |  |
| 2011197  | EN 12697-6 | Bulk density of bituminous specimens (Procedure B) <b>[NEW!]</b> | Dec-24 |  |

[A] = For accredited and non-accredited status please see [Online portal \(ODIN\)](#)

For your registration we recommend to use our online catalogue (ODIN) or the registration forms on our homepage ([www.DRRR.de](http://www.DRRR.de)). You can also use the registration forms on page 45 of this catalogue.

## Thermal insulating material

| Art. No. | Standard   | Proficiency testing type <sup>[A]</sup>                    | period | To view pricing information visit our online Portal: |
|----------|------------|--|--------|--|
| 2010587  | ISO 29470  | Thermal insulating products - Apparent density             | Dec-24 | <a href="#">Login or register</a>                    |
| 2010607  | EN 1607    | Tensile strength perpendicular to faces                    | Dec-24 |  |
| 2011040  | EN 12089   | Bending behaviour <b>[NEW!]</b>                            | Dec-24 |  |
| 2011041  | ISO 29466  | Thermal insulating products - Thickness <b>[NEW!]</b>      | Dec-24 |  |
| 2010609  | ISO 29469  | Compression behaviour                                      | Dec-24 |  |
| 2010286  | EN 29052-1 | Acoustics determination of dynamic stiffness               | Dec-24 |  |
| 2010280  | EN 12667   | Heat transfer  | Dec-24 |  |
| 2011188  | ISO 16535  | Long term water absorption by immersion (2A) <b>[NEW!]</b> | Dec-24 |  |
| 2011189  | EN 1604    | Dimensional stability <b>[NEW!]</b>                        | Dec-24 |  |
| 2011190  | EN 12086   | Water vapour transmission <b>[NEW!]</b>                    | Dec-24 |  |

## Other building material

| Art. No. | Standard     | Proficiency testing type <sup>[A]</sup>           | period |  |
|----------|--------------|---|--------|--|
| 2010282  | EN ISO 15148 | Water absorption coefficient by partial immersion | Nov-24 |  |

[A] = For accredited and non-accredited status please see [Online portal \(ODIN\)](#)

| Article No. / proficiency testing type | period | result release and report online (ODIN) | result release by e-mail / fax; report by e-mail | additional sample sets |
|--|--------|---|--|------------------------|
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Up to nine additional result sheets can be returned for chemical-physical, microbiological and physical-mechanical proficiency testing rounds are free of charge. As a participant, you benefit from our international recognized proficiency testing schemes. By submitting up to ten result sheets you are now enabled to run international comparisons to check different methods and different lab technicians with one proficiency testing round. Your benefit: Participating in DRRR-proficiency testing services save costs for your quality assurance! If you need additional sample sets, you have the opportunity to order it according to our latest product catalogue.

**Please note, that the free of charge service is only valid for returning result sheets by ODIN. If you send us your results by mail, fax or postal delivery, the additional result sheet will be charged according the latest product catalogue as a sample set equivalent.**

In very rare individual cases an accredited proficiency testing round will not be carried out within the scope of accreditation due to technical or organizational reasons. In these rare cases the DRRR will inform the participants before the start of the proficiency testing round, thus before the sample shipment. An immediately free cancellation for the participants is possible until the date of the sample shipment.

Your registration is an one-time order. It is only valid for one year. Cancellation fees apply when cancelling a registration. If you want to have a permanent-registration please tick the box on the right side.

Please send registration to:  
 fax-no. +49 (0)8 31/960 878-99  
 e-mail: [info@DRRR.de](mailto:info@DRRR.de)  
 online via [www.odin.drrr.de](http://www.odin.drrr.de)

- this registration is permanent-registration and valid until my cancellation
- An offer with the total costs is needed
- A Purchase order from the purchasing department will follow

**DRRR-customer number** \_\_\_\_\_

**company** \_\_\_\_\_

**company (additional line)** \_\_\_\_\_

**contact person** \_\_\_\_\_

**street** \_\_\_\_\_

**post-code /city** \_\_\_\_\_

**country (if not Germany)** \_\_\_\_\_

**fon** \_\_\_\_\_

**fax** \_\_\_\_\_

**e-mail** \_\_\_\_\_

**VAT-ID-No. (if available)** \_\_\_\_\_

With your signature you agree with our general terms and conditions.

\_\_\_\_\_ date

\_\_\_\_\_ signature

## Importance

Reference material is a substance or item with one or more defined (known) characteristics and sufficient homogeneity.

## Description

## Benefit certified reference material

These materials are suitable for the calibration of equipment, for the quality assurance of testing methods or to analyse derivative reference materials. DRRR-Reference materials are essential for the chemical, physical and mechanical testing as well as for the quality assurance. Standards for the accreditation of testing and calibration laboratories demand the using of reference materials.

The use of reference materials (RM) and certified reference materials (CRM) is an important procedure to avoid mistakes in the lab routine.

**Profit with our high quality standards for your lab work**

## Characteristics

- the reference value is developed by the total number of results of the participants of proficiency testing (consensus value)
- DRRR-Reference materials do always refer to a DRRR-Proficiency testing
- reliable reference values according to advanced statistical evaluation
- independent service without influence of societies organisations and federations

The opportunity to collaborate with the best laboratories for the different requirements assures the high quality of our materials.

**Reference materials meet all requirements of the ISO Guides 31 and 35, but it does not exist any accreditation for reference material**

## Availability

For all Proficiency testing schemes in this catalogue reference material is available. You can contact us for price information or for currently available reference materials.

**Availability and order request**

We have collected wide experience in building up and operating process orientated quality management systems. Our experience is based on an intensive quality management qualification (DQG –EOQ quality manager). Feedback of our costumers gives us a wide overview about the various requirements that companies have to pass at audit situations.

As a qualified and examined auditor (DGQ-EOQ auditor quality, TGA) we are capable to estimate a company from different perspectives if quality management system is fit for audit and following we can show potentials for improvement.

**On the basis of our international activities we also have experience in building up and implementation of quality management systems in developing countries. We place our services at your disposal for international questions.**

**Please do not hesitate to contact us.**

We offer assistance for the following questions:

- building up process orientated quality management
- building up of a secure testing agent system
- assessment of quality systems in preparation for audits
- advice in operating effective quality management systems

With our expertise in interpreting ISO 9001 over IFS to DIN 17025 we serve companies of food economy and laboratories.

### IR-Seminar

The IR-seminar explains how to analyze different kind of food by IR spectroscopy. Furthermore specific peculiarities for the IR calibration of selected food will be discussed. The specific peculiarities of the calibration will be explained intensify. How to calibrate? When you have to update the calibration? What is the cause of measurement problems?

The seminar will be complemented by theoretical exercises on IR spectroscopy. In the practical exercise calibration data sets will be tested for suitability and critical data sets will be identified.

### Sensory seminar

The importance of the sensory in the food stuff industry will be explained and clarified in practice. The current state of new tastes is presented. Furthermore the participant will be enabling to apply the sensory testing methods. The use of sensory methods will be explained and on the basis of various sensory materials implemented.

The sensory measurement uncertainty of each participant will be determined at a practical example.

### User-Workshop

Typical questions in the chemical and microbiological analysis of food, especially dairy products are presented and possible solutions will be demonstrated.

A lot of space for the exchanging of knowledge and experience is provided at the User-Workshop. Therefore some experts are available as contact persons.

Furthermore efficient ways to increase the laboratory quality will be presented. The seminar is accompanied by the practical experience of users.

### Statistics seminar for beginners

This seminar presents the Binomial-, Poisson- and Normal distribution and the application of them. Problem cases and the classic misinterpretation due to a false outlier treatment by the application of the Normal distribution are shown.

The seminar is complemented by practical exercises with the notebook.

### Statistics seminar for advanced learners

This seminar presents the Shapiro-Wilk-Test,  $q_{i^2}$ -adaptation test, Median and MAD (Median absolute deviation) and their application. Furthermore the participants will be informed about the robust standard deviation after Q-method and the robust average after Hampel.

The seminar is complemented by practical exercises with the notebook.



### Implementation of DIN EN ISO/IEC 17025 in food laboratories

The participants will learn all items to implement a successful internal audit. Furthermore typical errors of the implementation of the audit will be targeted and avoidance strategies are communicated. The reliable identification of the deviation in audits and their successful processing in the form of measures will be trained.

### Inhouse-Training

We consider lectures, training and seminars as in important duty. Not primary concerning commercial possibilities but by reason that the knowledge transfer is the most important item in every department of our society.

- Seminar and training (one-day) of handling and implementation of proficiency testing
- Seminar and training (one-day) of operating control charts
- Seminar and training of sensory (customised product sensory)

**You will benefit of the extensive experience of the DRRR, because the DRRR go through the audit situation in a perspective of 360 ° as an auditor, as an audited person and as a neutral expert.**

**For special requirements we also offer customised training programmes.**

**For questions about contents and conditions do no hesitate to contact us.**

## Terms of payment

Our prices are net prices (plus 19% value added tax). Customers from European countries can provide us with their EU-VAT-Identification number, then they will be exempt from German value added tax.

Terms of payment: 8 days net, without deduction

Fees for specially required customs documents such as import permits or similar will be invoiced according to time and effort.

Our bank details:

Raiffeisenbank in Allgäuer Land / bank code 733 692 64

Account 102350 / IBAN DE 94733692640000102350

BIC code: GENO DEF1DTA

Sales tax ID no. DE254613132

tax number 127/124/32207

## Terms of delivery

Shipping costs for reference materials and proficiency tests will be invoiced according to time and effort. All samples and packaging materials are the property of the DRRR. Samples that are used for non-destructive testing and are therefore not subject to destruction in the course of the proficiency test can be reclaimed by the DRRR upon request. The DRRR shall bear the shipping costs for the return transport if the materials are reclaimed.

Proficiency tests or reference materials marked “frozen” are shipped with our ADR safety tested frozen packaging system. A packaging fee is charged for the polystyrene box including cooling accumulators and air bubble film as well as the protective outer packaging. Frozen materials are shipped by express service. With the delivery of reference materials, you will receive a quality certificate with the details of the respective reference values as well as associated uncertainties.

## Terms of delivery (risk group 1, 2 and 3)

Proficiency tests or reference materials marked with “Risk Group 1” are not subject to any participation restrictions according to § 44 IfSG (Infektionsschutzgesetz).

For proficiency tests or reference materials marked with “risk group 2, or risk group 3\*\*\*”, we need a permission from your laboratory according to § 44 IfSG (Infektionsschutzgesetz) or similar. Please enclose a copy of the permission with your registration or order.

Our general terms and conditions (Allgemeine Geschäftsbedingungen) are valid!

**The German reference office for proficiency testing and reference materials GmbH (hereinafter referred to as DRRR) for freely agreed services, in particular testing, training and expert activities as well as reference materials.**

## § 1 General terms and conditions

The client acknowledges the General Terms and Conditions and price lists valid at the time of placing the order. Deviating terms and conditions of individual clients cannot be accepted.

Collateral agreements, promises and other declarations by the employees of the DRRR are only binding if they are expressly confirmed in writing by the DRRR. This shall also apply to amendments to this clause.

If individual regulations within this contract or its components are ineffective, this does not affect the validity of the remaining regulations. The contracting parties shall have a duty, acting in accordance with the principles of good faith, to replace any invalid provision by one which is valid and which produces the same economic outcome as that intended by the invalid provision and providing that such replacement does not result in any change to the content of the contract; the same shall also apply analogously to any matter which requires regulation but for which no provision is made in these Terms and Conditions.

## § 2 Execution of the order

The orders accepted by the DRRR shall be carried out or expert opinions shall be prepared in accordance with the recognized rules of technology and – unless otherwise agreed in writing – in the manner customary at the DRRR. No responsibility shall be assumed for the correctness of the safety programs or safety regulations on which the tests are based, unless expressly agreed otherwise in writing.

The scope of the DRRR's work shall be specified in writing when the order is placed. If the proper execution of the order results in changes or extensions to the specified scope of the order, such changes or extensions shall be agreed in writing prior to execution. If the Customer can no longer be reasonably expected to adhere to the contract with regard to the changes or extensions, the Customer shall in this case be entitled to withdraw from the contract. However, according to § 649 BGB, the client must pay the agreed remuneration or, in the absence of an agreement, an appropriate remuneration.

The contractual services of the DRRR are deemed to have been rendered upon preparation of the respective final reports or expert reports.

A seminar registration can be cancelled free of charge for up to 6 weeks, after which the customer will be invoiced for the costs of the participants depending on the time and effort involved.

The following cancellation conditions apply to the cancellation of a proficiency testing:

|   |  |
|---|--|
| <b>Cancellation notification period:</b>      | Permanent registration (D)   |
|   | single (one-time) registration (E)   |
| up to 3 months before the proficiency testing | no costs (D)   |
|   | 50,00 € (E)  |
| 3 months before the proficiency testing start | 50,00 € (D)  |
|   | half proficiency testing price (E)   |
| sample shipment – deadline of the results     | complete price of the proficiency testing and any further incurred costs (D & E) |

## § 3 Deadlines

The order deadlines specified by the DRRR shall not be binding unless their binding nature has been expressly agreed in written form.

#### § 4 Warranty and liability

The integrity of the sample material to a defined condition is only guaranteed until the first border crossing in the case of foreign shipments.

Safety note: When sending materials of risk group 2, the DRRR must receive a letter from the recipient stating that the recipient is authorized to handle hazardous materials (e.g. pathogenic germs).

The DRRR's warranty only covers the services expressly commissioned to it pursuant to Section 2.

No warranty is thereby assumed for the correctness and functioning of the relevant overall system, measuring instruments or materials to which the examined or tested samples belong; in particular, the DRRR bears no responsibility for packaging, material selection and construction of the examined systems, measuring instruments or assemblies, unless these issues are expressly the subject of the order.

Even in the latter case, the warranty obligation and legal responsibility of the manufacturer are neither limited nor assumed.

The warranty obligation of the DRRR is limited to the rectification of an error or defect or, in the absence of a warranted characteristic, to the achievement of this characteristic within a reasonable period of time. If the rectification or creation of the characteristic fails, i.e. if it becomes impossible or unreasonable for the Customer or is refused or unduly delayed by the DRRR, the Customer shall be entitled to demand a reduction in the remuneration or rescission of the contract, at its discretion.

The DRRR shall not be liable for any work performed by the Customer in the event of incorrect proficiency tests or reference materials.

The DRRR only assumes liability for certain properties, in particular for the fact that the service is suitable for the purposes of the Customer, if a corresponding assurance of the properties in question has been given. Any liability for consequential damages from positive breach of contract due to warranted characteristics is excluded, unless the warranty was intended to protect against such consequential damages. Claims for damages of the client from §§ 463, 635 BGB due to the lack of assured characteristics remain unaffected.

If an error or defect that does not represent the absence of a warranted characteristic is due to a circumstance for which the DRRR is responsible, the DRRR shall only be liable for any damage incurred by the Customer as a result thereof per order up to a maximum amount that corresponds to the value of the order agreed in accordance with Section 2.

The materials may only be used for the corresponding scientific purpose by trained qualified personnel. The DRRR is in no case responsible and liable for used, unused or unusable samples.

The samples are intended for analytical purposes only. The DRRR assumes no liability if the samples are not used for the intended analytical purposes.

All materials are definitely not suitable for human consumption unless they are sensory materials. Oral ingestion of materials not intended for sensory purposes can be harmful to health.

In the case of sensory materials, it is the responsibility of the test persons themselves to check whether they can test the materials with regard to allergies. The ingredients of the sensory materials are declared.

All samples and packaging materials are the property of the DRRR. Samples that are used for non-destructive testing and are therefore not subject to destruction in the course of the interlaboratory comparison can be reclaimed by the DRRR upon request. The DRRR will bear the shipping costs for the return transport, if the materials are reclaimed.

The analytical properties of the material can only be guaranteed if the transport, storage and use conditions specified by the DRRR are observed.

For frozen samples, the DRRR only guarantees that the samples will be treated in accordance with the material properties stated in the data sheet. For frozen samples delivered to countries outside the EU, we can only guarantee the sample properties up to the first customs clearance point at the respective EU border.

#### § 5 Exclusion of further liability and claims

The risk (transport and remuneration risk) shall pass to the Customer as soon as the goods have left the DRRR, regardless of whether the goods are transported by the Customer's own or third-party means of transport.

Claims for damages by the client are excluded. This does not apply to intent, gross negligence, breach of essential contractual obligations of the DRRR or the lack of properties guaranteed in writing.

All further claims of the client for direct and indirect damage – for whatever legal reason – in particular claims for damages due to positive breach of contract or from tort and for compensation for damage that did not occur on the object of the order itself are excluded. Irrespective of this, the client is obliged to take out the usual insurance against direct and indirect damage.

## § 6 Remuneration and payment terms

Unless otherwise stated, the prices are in euros and do not include value added tax. This will be invoiced separately at the currently applicable rate in accordance with the applicable tax regulations.

The goods remain the property of DRRR until they have been paid for in full by the customer.

The fees according to the DRRR's currently valid List of Services shall apply to the calculation of the services unless a fixed price or another basis of assessment has been expressly agreed in writing. In the absence of a valid specification of services, individual contractual arrangements shall be made in each case.

Advances on costs can be requested. Partial invoices can also be issued in accordance with the services rendered. Partial invoices need not be marked as such. The receipt of an invoice does not mean that the DRRR has fully invoiced the order.

The fees are due for payment immediately after invoicing, at the latest by the date printed on the invoice (8 days net, without deduction). Unless another arrangement has been made. If payment is made at a later date, default interest of 2% above EURIBOR will be charged on the outstanding invoice amount for the period between the due date and receipt of payment.

Objections to the invoices of the DRRR must be notified in writing within a preclusive period of 14 days after receipt of the invoice, stating reasons.

## § 7 Confidentiality and copyright

The DRRR reserves the copyrights to the expert opinions, test results, calculations, etc. prepared by it.

The DRRR and its employees may not unauthorizedly disclose or exploit business and operating relationships that come to their knowledge in the course of their work.

The DRRR may take copies for its files of written documents that have been made available to the DRRR for inspection and that are of importance for the performance of the assignment.

If the proficiency test report and the laboratory code are sent by e-mail, no guarantee can be given that confidentiality will be ensured.

## § 8 Place of jurisdiction, place of performance, applicable law

The place of jurisdiction for the assertion of claims for both parties to the contract is Kempten, provided that the conditions according to § 38 of the German Code of Civil Procedure are met. This applies in particular to dunning proceedings.

The place of performance for all obligations arising from the contract is Kempten, the contractor's registered office.

The contractual relationship and all legal relationships are subject exclusively to the law of the Federal Republic of Germany applicable between domestic contracting parties, excluding the Uniform Law on the Sale of Goods and the United Nations Convention on Contracts for the International Sale of Goods.

## § 9 Guarantee of services and goods from cooperation partners

For reference materials sold on behalf of our cooperation partners, the following conditions apply with regard to liability and warranty:

The liability of our cooperation partners, their legal representatives and vicarious agents is limited to cases of intent, gross negligence, absence of a warranted characteristic and breach of an obligation, the non-compliance of which would endanger the purpose of the contract. The liability for proven damages due to grossly negligent conduct is limited to the amount of the contractual remuneration; no liability is assumed for consequential damages. Liability is limited to the use of the reference materials for the purposes described in the respective certificate.

Our cooperation partners guarantee the application of scientific diligence as well as compliance with the recognized rules of technology.

Our cooperation partners are entitled to rectify any defects that occur. If the rectification of defects fails, the client is entitled to demand a reduction of the remuneration or cancellation of the contract at his discretion. Further warranty claims are excluded.

The warranty is limited to the stated expiration date of the reference materials.

This applies to: ieLab, TGZ AQS Baden-Württemberg