

# BUILDING MATERIAL

product catalogue  
2017 / 2018



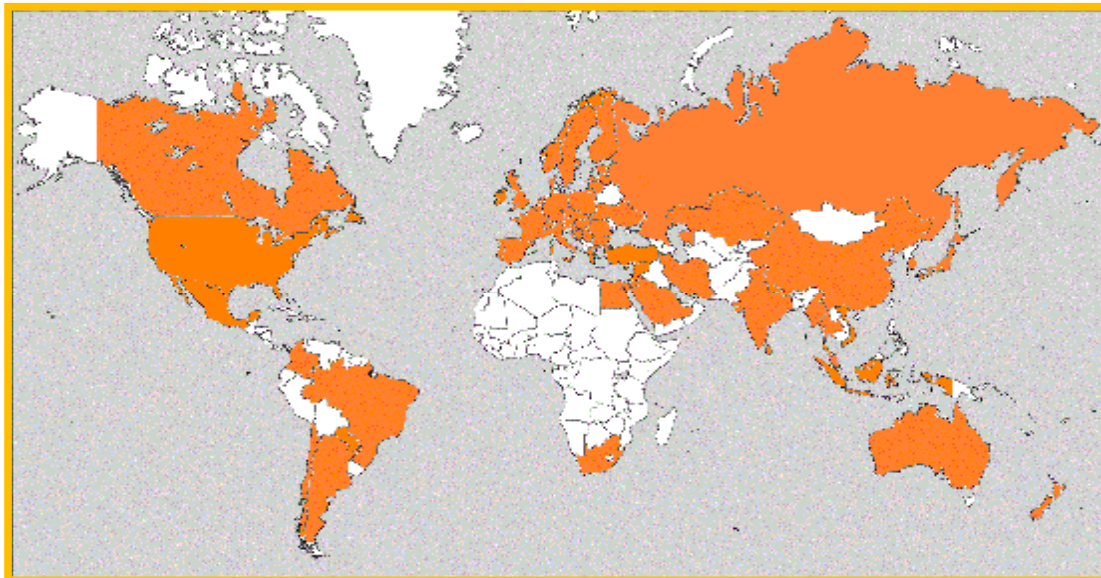
Your laboratory quality for:

- *chemical-physical*
- *microbiological*
- *physical-mechanical*

testing

proficiency testing  
reference material

**With the best proficiency testing service /  
reference materials available into the year  
2017 / 2018!**



\* [www.klinkner.de/hinweise/4596-analyse-des-ringversuchsangebotes-mikrobiologischer-parameter-im-bereich-lebensmittelanalytik](http://www.klinkner.de/hinweise/4596-analyse-des-ringversuchsangebotes-mikrobiologischer-parameter-im-bereich-lebensmittelanalytik)

**If you do not find your proficiency testing or reference material, please look  
at the keyword index.**

**NEW**

**Returning of  
ten result sheets is  
included in the  
proficiency testing  
price!\***

Using ODIN we offer 9 additional  
result sheets in the field of

- chemical-physical
- microbiological
- physical-mechanical

proficiency testing schemes for free.



\*Please note, that the free of charge service is only valid for a result returned via ODIN (conditions and terms look at application form and terms and conditions).

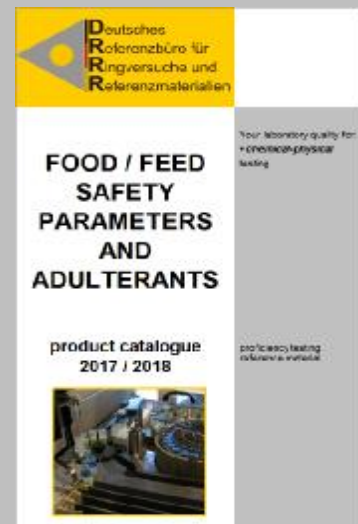
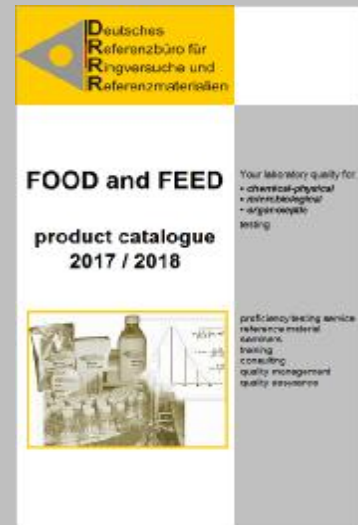
**If you have suggestions for our proficiency testing program, please do not hesitate to contact us. Together we can develop customized proficiency testing schemes for you.**

## our further catalogues:

proficiency testing service & reference material:  
**- food and feed**

proficiency testing service & reference material:  
**- food / feed safety parameters**  
**- adulterants**

proficiency testing service & reference material:  
**- packaging**  
**- consumer goods**  
**- plastics**



**If you do not find your proficiency testing or reference material, please look at the keyword index.**

## the focus in our further catalogues:

### Product catalogue **food and feed:**

Among others with a focus in

- **main parameter** (*fat, protein, dry matter and so on*)
- **side parameter** (*total lactic acid, lactose, nitrate, vitamins, freezing point and so on*)
- **microorganism** (*total count, E.coli, coliform, clostridia and so on*)
- **organoleptic testing** (*triangle test, ranking test and so on*)
- and so on

**in many food and feed matrices**

### Product catalogue **food / feed safety parameters and adulterants:**

Among others with a focus in

- **residues** (*SO<sub>2</sub>, chloroform, natamycin and so on*)
- **contaminants** (*aflatoxin, DON, ochratoxine, heavy metals and so on*)
- **allergens** (*soy, gluten and so on*)
- **animal species**
- and so on

**in many food stuffs and animal feed**

### Product catalogue **packaging / consumer goods / plastics:**

Among others with a focus in

- **migration** (*overall migration, terephthalic acid, printing inks, mineral oil, jewellery and so on*)
- **identification** (*multi-layer plastic film, mono-layer plastic film and so on*)
- **extraction** (*free formaldehyde, flame retardants and so on*)
- **mechanically, thermally, optically testing and so on**
- chemical parameter of the testing for **cosmetic products** (*metals, tenside, tattoo ink and so on*)
- **microorganism** (*aerobic bacteria, moulds, S.aureus, cosmetics, foil, and so on*)
- **disinfectant**
- **medical devices**
- **organoleptic testing** (*threshold value examination, consumer goods, organoleptic deviation and spoilage and so on*)
- and so on

**in many packaging, consumer goods, cosmetics, textiles, jewellery and so on**

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# Index proficiency testing

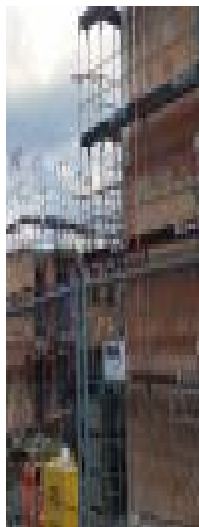
Your proficiency testing you will find in the particular matrix groups, which are divided into the adjacent two main scientific disciplines:

- *chemical-physical*
- *microbiological*
- *physical-mechanical*



<b>proficiency testing</b>			
<b>mineral building materials</b>			
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# Index certified reference material



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If you do not find your proficiency testing or reference material, please look at the keyword index.



# Your convenient proficiency testing management

## Simply brilliant, your proficiency testing with ODIN.

Online Data Information Network (ODIN)

### Convenient proficiency testing participation with ODIN easy, safe and clearly

- *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*

It is, of course, possible to send us your results via e-mail / fax and you can receive the report by e-mail.

Optionally you can request the report by postal delivery. This is possible for both booking options. You can receive the report as a soft cover via regular mail with an extra charge of 20,00 € to the basic price

## Secure payment with IRIS.

Internet Remuneration Information Service (IRIS)

### Convenient payment of the proficiency testing with IRIS easy, safe and fast.

- *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.

**If you have suggestions for our proficiency testing program, please do not hesitate to contact us. Together we can develop customized proficiency testing schemes for you.**

## Z'-score > 2: What to do?

### 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.

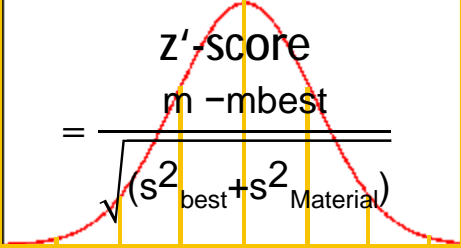
You receive a proficiency testing sample for analyzing. You submit the results of the testing. After that you will get your proof of performance as a z'-score calculation in the form of a certificate within 1 - 2 weeks. The performance evaluation refers to the previous regular proficiency testing, so 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:

You have participated in the regular DRRR-proficiency testing and you would like to verify your performance. 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.


$$z' \text{-score} = \frac{m - m_{\text{best}}}{\sqrt{(s_{\text{best}}^2 + s_{\text{Material}}^2)}}$$

Costs for the bPT 75,00 € + sample material and shipping costs

You can also order reference material.

**If you do not find your proficiency testing or reference material, please look at the keyword index.**



## Inspection body

The DRRR is a service company for external quality assurance of laboratories of the food industry, the packaging / consumer goods /plastic industry and building industry.

We are an inspection body, reference material producer and proficiency testing (PT) provider. For a wide selection of proficiency testing schemes the DRRR is accredited acc. DIN EN ISO/IEC 17043 (please look into the appendix of our scope of accreditation). We offer many certified reference materials as well as advise on quality matters and quality assurance training in the laboratory and the production.

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

Proficiency testing schemes that are not covered by the scope of accreditation are specifically marked with °) in the product catalogue.

## Scheme for our organisation of proficiency testing:

- 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
  - all materials send out are in line with a homogeneity test and stability test; therefore we reserve the right to purchase the sample and engage the testing take through external qualified subcontractors
  - after receiving the samples you will have a period of 4 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 3 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)
- your data will be treated confidentially

announcement by e-mail

BCR/48/93 (1994)  
ISO 13528

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

s. DRRR-reference materials

**If you have suggestions for our proficiency testing program, please do not hesitate to contact us. Together we can develop customized proficiency testing schemes for you.**

## *building material*



## *chemical-physical proficiency testing*

## OVERVIEW

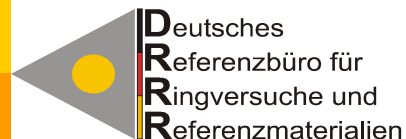
The **DRRR** (German reference office for proficiency testing and reference materials) and the **MPA Braunschweig** (Civil Materials Testing Institute Braunschweig) started a cooperation with the aim to offer tailor made proficiency testings and reference materials for the **construction sector**. Thereby the competences of both establishments are combined in the field of the construction industry, proficiency testings and reference materials.

The **high quality testing items** are produced according to the global standards. A **permanent quality control** of the materials ensures a controlled small uncertainty contribution beyond the proficiency testing rounds. Established and secured statistics standard procedures make sure that the calculated parameter is as close as possible to the true value.



# building material

## chemical-physical proficiency testing



proficiency testing type    testing items    requested parameters

### schedule 2017 / 2018

period	result release and report online (ODIN)*	result release by e-mail /fax; report by e-mail*	each additional sample set ***
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### MINERAL BUILDING MATERIALS

period	result release and report online (ODIN)*	result release by e-mail /fax; report by e-mail*	each additional sample set ***
November 2017	380,00 €	400,00 €	127,00 €
September 2017	295,00 €	315,00 €	98,00 €
October 2017	295,00 €	315,00 €	98,00 €
September 2017	450,00 €	470,00 €	150,00 €
December 2017	720,00 €	740,00 €	240,00 €
December 2017	950,00 €	970,00 €	317,00 €
December 2017	690,00 €	710,00 €	230,00 €
October 2017	295,00 €	315,00 €	98,00 €

° hardened concrete Article No. 2010205	7)	chloride content EN 14629
° cement Article No. 2010266		chloride content EN 196-2
° cement Article No. 2010268		loss of ignition EN 196-2
° fly ash Article No. 2010270		mass percentage of reactive CaO EN 450-1
° hardened concrete Article No. 2010272	1)	Density EN 12390-7
° hardened concrete Article No. 2010274	2)	Freeze thaw resistance-scaling EN 12390-9 (plate method)
° mortar for masonry Article No. 2010276	5)	dry bulk density of hardened mortar EN 1015-10
° limestone Article No. 2010278		total organic carbon EN 13639

### INSULATING MATERIALS

November 2017	850,00 €	870,00 €	283,00 €
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° insulating material Article No. 2010280	6)	heat transfer EN 12667
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### OTHER BUILDING MATERIALS

November 2017	495,00 €	515,00 €	165,00 €
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° building material Article No. 2010282		water absorption coefficient by partial immersion ISO 15148
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\* price report by postal delivery + 20,00 €/ \*\*\* additional submitted result sheets by e-mail, post or fax will be charged as additional sample sets

° This proficiency testings schemes are not in the scope of accreditation.

- 1) completed testing items are provided: 150 x 150 x 150 mm
- 2) completed testing items are provided: 150 x 150 x 50 mm
- 3) completed testing items are provided: 150 x 150 x 700 mm
- 4) completed testing items are provided: Ø 150 x 300 mm
- 5) preparation of the testing items by the participant
- 6) completed testing items are provided: 50 cm x 50 cm x 6 cm
- 7) completed testing items are provided: ca. 600 g
- 8) completed testing items are provided: 200 mm x 200 mm

## *building material*



## *physical-mechanical proficiency testing*

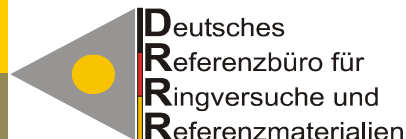
## OVERVIEW



The field of **physical-mechanic testings** is of great importance for the construction sector, as the **statics and the load limits ensure the security of buildings** among other things. Wrong interpretation of statics caused by incorrect measured values can endanger human life. As a result the field of proficiency testing for physical-mechanic testings is developed.

# building material

## physical-mechanical proficiency testing



proficiency testing type    testing items    requested parameters

### schedule 2017 / 2018

period	result release and report online (ODIN)*	result release by e-mail /fax; report by e-mail*	each additional sample set ***
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## MINERAL BUILDING MATERIALS

period	850,00 €	870,00 €	283,00 €
December 2017	850,00 €	870,00 €	283,00 €
December 2017	680,00 €	700,00 €	227,00 €
December 2017	890,00 €	910,00 €	297,00 €
December 2017	990,00 €	1.010,00 €	330,00 €
December 2017	990,00 €	1.010,00 €	330,00 €
December 2017	990,00 €	1.010,00 €	330,00 €
December 2017	750,00 €	770,00 €	250,00 €
December 2017	850,00 €	870,00 €	297,00 €
December 2017	750,00 €	770,00 €	250,00 €

## INSULATING MATERIALS

October 2017	495,00 €	515,00 €	165,00 €
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\* price report by postal delivery + 20,00 €/ \*\*\* additional submitted result sheets by e-mail, post or fax will be charged as additional sample sets

° This proficiency testings schemes are not in the scope of accreditation.

- 1) completed testing items are provided: 150 x 150 x 150 mm
- 2) completed testing items are provided: 150 x 150 x 50 mm
- 3) completed testing items are provided: 150 x 150 x 700 mm
- 4) completed testing items are provided: Ø 150 x 300 mm
- 5) preparation of the testing items by the participant
- 6) completed testing items are provided: 50 cm x 50 cm x 6 cm
- 7) completed testing items are provided: ca. 600 g
- 8) completed testing items are provided: 200 mm x 200 mm

## ***building material***



## ***microbiological proficiency testing***

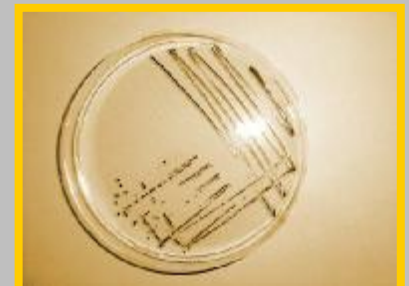
## **OVERVIEW**

The microbiological proficiency testing rounds of DRRR are characterized by the application of **vegetative microorganisms** and no lyophilisates. This means that we are exclusively working with

- **living bacteria**
- **living yeasts and moulds**

in our **real matrices** assuring an **effective link** between the **applied microorganism** and the matrix.

For this reason it is possible for our customers to use their own **nutrient media and their internal testing method** in a real system of matrix and microorganism. Furthermore we substantially apply “**mono germ systems**” which means that **only 1 germ or bacterium** has to be analyzed in the corresponding proficiency testing. Due to that fact we are able to **avoid unrequested negative effects caused by other microorganisms during the analysis** and the following evaluation of the results. Moreover, the microbiological field of DRRR is characterized by the **market-leading statistical evaluation** whereby additional information like measurement uncertainty and different spreading concerning a single laboratory can be displayed.





## building material

### microbiological proficiency testing



proficiency testing type

requested parameters

### schedule 2017 / 2018

period	result release and report online (ODIN)*	result release by e-mail /fax; report by e-mail*	each additional sample set ***
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## OTHER BUILDING MATERIALS

<p>° <b>Moulds (contact samples)</b> <i>risk group 1/2</i> Article No. 2010682</p>	<p>Moulds quantitative (2 samples building material)</p>	<p>April 2017</p>	<p>350,00 €</p>	<p>370,00 €</p>	<p>125,00 €</p>
<p>° <b>Moulds (material samples)</b> <i>risk group 1/2</i> Article No. 2010684</p>	<p>Moulds qualitative (2 samples building material)</p>	<p>April 2017</p>	<p>370,00 €</p>	<p>390,00 €</p>	<p>130,00 €</p>

\* price report by postal delivery + 20,00 €/ \*\*\* additional submitted result sheets by e-mail, post or fax will be charged as additional sample sets

° This proficiency testings schemes are not in the scope of accreditation.



# certified reference materials



# OVERVIEW

## Importance of reference materials

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

## Your benefit of using our certified DRRR-reference materials

These materials are suitable for the **calibration of equipment**, for the **quality assurance of testing methods** or to **analyse derivate reference materials**. DRRR-Reference materials are essential for the chemical, physical, microbiological and sensory analytics 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.

Our reference materials (RM) and certified reference materials (CRM) cover a wide range for chemical, physical, microbiological and sensory reference materials. You can profit with our high quality standards for your lab work.

## Characteristics of our certified DRRR-reference materials

- 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.

The DRRR reference materials meet all requirements of the ISO Guides 31, 34 and 35, but it does not exist any accreditation for reference materials.

For questions about our reference materials, shipping conditions and reference values / uncertainties do not hesitate to contact us.

## Identification of the materials

The reference materials listed on the following pages have specific article numbers to identify the materials.

To supply our customers with consistently high quality the DRRR-reference materials will be replaced regularly by corresponding materials during the year.

Currently available reference materials and its corresponding reference values will be sent on request. Please feel free to contact us. We reserve our right to send you always the latest materials.

**If you do not find your proficiency testing or reference material, please look at the keyword index.**

**building material**  
**certified chemical-physical reference material**



**overview**

material description	parameter <i>(in individual cases it can happen that there is no reference value available for a listed parameter)</i>	additional information	packaging unit <i>(can vary)</i>	prices
<b>MINERAL BUILDING MATERIALS</b>				
<b>hardened concrete</b> Article No. 1181001	chloride content EN 14629	available reference material and the corresponding reference values are available on request -limited supply options-	ca. 600 g	80,00 €
<b>cement</b> Article No. 1181002	chloride content EN 196-2	available reference material and the corresponding reference values are available on request -limited supply options-	on request	80,00 €
<b>cement</b> Article No. 1181003	loss of ignition EN 196-2	available reference material and the corresponding reference values are available on request -limited supply options-	on request	on request
<b>fly ash</b> Article No. 1181004	mass percentage of react	available reference material and the corresponding reference values are available on request -limited supply options-	on request	on request
<b>hardened concrete</b> Article No. 1181005	Density EN 12390-7	available reference material and the corresponding reference values are available on request -limited supply options-	on request	on request
<b>hardened concrete</b> Article No. 1181006	Freeze thaw resistance-scaling EN 12390-9 (plate method)	available reference material and the corresponding reference values are available on request -limited supply options-	on request	on request
<b>mortar for masonry</b> Article No. 1181007	dry bulk density of hardened	available reference material and the corresponding reference values are available on request -limited supply options-	on request	on request
<b>limestone</b> Article No. 1181008	total organic carbon EN 13639	available reference material and the corresponding reference values are available on request -limited supply options-	on request	350,00 €
<b>INSULATING MATERIALS</b>				
<b>insulating material</b> Article No. 1181009	heat transfer EN 12667	available reference material and the corresponding reference values are available on request -limited supply options-	50 cm x 50 cm x 6 cm	380,00 €
<b>OTHER BUILDING MATERIAL</b>				
<b>building material</b> Article No. 1181010	water absorption coefficient by partial immersion ISO 15148	available reference material and the corresponding reference values are available on request -limited supply options-	on request	on request

**building material**  
**certified physical-mechanical reference material**



**overview**

material description	parameter <i>(in individual cases it can happen that there is no reference value available for a listed parameter)</i>	additional information	packaging unit <i>(can vary)</i>	prices
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**MINERAL BUILDING MATERIALS**

<b>hardened concrete</b> Article No. 1181011	stability EN 196-1	available reference material and the corresponding reference values are available on request -limited supply options-	on request	on request
<b>hardened concrete</b> Article No. 1181013	Compressive strength of test specimens EN 12390-3	available reference material and the corresponding reference values are available on request -limited supply options-	on request	on request
<b>hardened concrete</b> Article No. 1181014	Flexural strength of test specimens EN 12390-5 (2-point load application)	available reference material and the corresponding reference values are available on request -limited supply options-	on request	on request
<b>hardened concrete</b> Article No. 1181015	secant modulus of elasticity in compression EN 12390-13 (method A)	available reference material and the corresponding reference values are available on request -limited supply options-	on request	on request
<b>hardened concrete</b> Article No. 1181016	secant modulus of elasticity in compression EN 12390-13 (method B)	available reference material and the corresponding reference values are available on request -limited supply options-	on request	on request
<b>concrete</b> Article No. 1181017	static E-Modulus in compression ISO 1920-10 (ISO 6784)	available reference material and the corresponding reference values are available on request -limited supply options-	on request	on request
<b>mortar for masonry</b> Article No. 1181018	flexural and compressive strength of hardened mortar EN 1015-11	available reference material and the corresponding reference values are available on request -limited supply options-	on request	on request
<b>mortar for masonry</b> Article No. 1181019	adhesive strength of hardened rendering and plastering mortars on substrates EN 1015-12	available reference material and the corresponding reference values are available on request -limited supply options-	on request	on request
<b>screed mortar</b> Article No. 1181020	flexural and compressive strength EN13892-2	available reference material and the corresponding reference values are available on request -limited supply options-	on request	on request

**INSULATING MATERIALS**

<b>insulating materials</b> Article No. 1181012	acoustics determination of dynamic stiffness EN 29052	available reference material and the corresponding reference values are available on request -limited supply options-	200 mm x 200 mm	180,00 €
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**building material**  
**certified microbiological reference material**



**overview**

material description	parameter <i>(S ometimes we used more than one method per parameter)</i>	additional information <i>(The values of the germ contents varies for each material from 10<sup>1</sup> to 10<sup>3</sup> KBE and can be asked before order.)</i>	packaging unit <i>(can vary)</i>	prices
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**OTHER BUILDING MATERIALS**

<b>Moulds (contact samples)</b> <i>risk group 1/2</i> <b>building material</b> Article No. 2281001	Moulds	quantitative testing -limited supply options-	on request	on request
<b>Moulds (material samples)</b> <i>risk group 1/2</i> <b>building material</b> Article No. 2281002	Moulds	qualitative testing (set of positive and negative samples) -limited supply options-	on request	on request



# PROFICIENCY TESTING



## 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 working time** in lab
- **Saving on production costs** by avoiding waste of raw material



## Your benefits taking part in DRRR proficiency testing schemes

- **saving the costs**, because you have the opportunity to **analyze more samples and more parameters in one proficiency testing**
- **objective and independent impression of your quality and your performance** of your routine testing method compared to the other participating laboratories
- **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

Our programme covers a wide range of chemical, microbiological and sensory proficiency testing schemes as well as the analysis of commodities, packaging and cosmetics. So you can profit of our high quality standards in all important fields of testing.

## We work according to:

ISO Guide 31  
ISO Guide 34  
ISO Guide 35  
DIN EN ISO/IEC 17020 / DIN EN ISO/IEC 17025  
DIN EN ISO/IEC 17043

## In most cases the laboratory performance we define by using:

z-score  
z'-score  
CRD-Wert

## In our evaluation we use the following statistical models:

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

Additional extended method evaluation (in case data are available)

The following three statistical methods are used for evaluation:

- binomial distribution
- log-normal distribution
- normal distribution
- sensible statistics
- sensible statistics with outlier elimination
- robust statistics

Our interlaboratory comparisons are evaluated by three different statistical schemes because it do not exist the ideal statistical scheme as well as the ideal dataset for an evaluation. We use the statistical model with the lowest  $\chi^2$ -value.

**If you do not find your proficiency testing, please look at the keyword index.**

## SALES TERMS AND DELIVERY CONDITIONS

§§

Our prices are net prices (plus 19% VAT) plus packaging and shipping. Customers from European countries who tell us their VAT-ID-No do not have to pay the German VAT.

Sales terms: 8 days net, without deduction

Expenses for special customs regulations e.g. import permission we have to charge separately.

**Proficiency testing schemes or reference materials** labelled with "*risk group 1*" does not require any special participation restrictions according to § 44 IfSG.

For **proficiency testing schemes or reference materials** labelled with "*risk group 2, or 3 \*\**" we need a permission according to § 44 IfSG or any similar of your lab.

**Proficiency testing schemes or reference materials** labelled with "*frozen*" will be send in our ADR-security certified freezing packaging system.

The shipment of not frozen materials will be sent by standard shipping. The frozen materials will be sent by express shipping.

The shipping costs for **reference materials and proficiency testings** will be calculated according to the effective expenses.

With the delivery of **reference materials** you will get the quality certificate with the details of the reference values and the corresponding uncertainties.

Please do not hesitate to contact us. We will send you an offer.

All samples and packaging materials are the ownership of the DRRR. Samples which are used for non-destructive testing and will not destroyed in the proficiency testing can be reclaimed from the DRRR. The DRRR will pay for the shipping costs.

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

Our bank data:

Raiffeisenbank im Allgäuer Land  
bank code 733 692 64  
account no 102350

IBAN DE 94733692640000102350  
BIC-Code: GENO DEF1DTA  
VAT-ID-no DE254613132  
TAX-no 127/124/32207

Place of business: Kempten  
Commercial Registry: HRB 9496

Please add a copy of the permission to your order form.

If you order reference materials until 3.00 p.m. we could send the samples the same day and by request they could be delivered within the next day in European countries!

We recommend you to buy larger quantities for one order process to avoid unnecessary shipping costs. You also can order materials in regular intervals. You only have to tell us which material(s) we shall send you in which time period.

# ALLGEMEINE GESCHÄFTSBEDINGUNGEN

# §§

Das Deutsche Referenzbüro für Ringversuche und Referenzmaterialien GmbH (im folgenden DRRR genannt) für frei vereinbarte Dienstleistungen, insbesondere Prüfungs-, Schulungs- und Gutachtertätigkeiten und Referenzmaterialien.

## § 1 Allgemeine Bestimmungen

Der Auftraggeber erkennt die zum Zeitpunkt der Auftragserteilung jeweils gültigen Allgemeinen Geschäftsbedingungen und Preislisten an. Abweichende Geschäftsbedingungen einzelner Auftraggeber können grundsätzlich nicht anerkannt werden.

Nebenabreden, Zusagen und sonstige Erklärungen der Mitarbeiter des DRRR sind nur dann bindend, wenn sie vom DRRR ausdrücklich schriftlich bestätigt werden. Dies gilt auch für Änderungen dieser Klausel.

Die Unwirksamkeit einzelner Bestimmungen dieses Vertrages oder seiner Bestandteile lässt die Wirksamkeit der übrigen Regelungen unberührt. Die Vertragspartner sind im Rahmen des Zumutbaren nach Treu und Glauben verpflichtet, eine unwirksame Bestimmung durch eine ihrem wirtschaftlichen Erfolg gleichkommende wirksame Regelung zu ersetzen, sofern dadurch keine wesentliche Änderung des Vertragsinhaltes herbeigeführt wird; das gleiche gilt, falls ein regelungsbedürftiger Sachverhalt nicht ausdrücklich geregelt ist.

## § 2 Durchführung des Auftrages

Die vom DRRR angenommenen Aufträge werden durchgeführt bzw. Gutachten werden nach den anerkannten Regeln der Technik und – soweit nicht entgegenstehende Abmachungen schriftlich vereinbart sind – in der beim DRRR üblichen Handhabung erstellt. Keine Verantwortung wird für die Richtigkeit der den Prüfungen zugrunde liegenden Sicherheitsprogramme oder Sicherheitsvorschriften übernommen, sofern nicht ausdrücklich und schriftlich etwas anderes vereinbart wurde.

Der Umfang der Arbeiten des DRRR wird bei Erteilung des Auftrages schriftlich festgelegt. Ergeben sich bei der ordnungsgemäßen Durchführung des Auftrages Änderungen oder Erweiterungen des festgelegten Auftragsumfanges, sind diese vor Durchführung schriftlich zu vereinbaren. Falls ein Festhalten am Vertrag im Hinblick auf die Änderungen oder Erweiterungen ihm nicht mehr zugemutet werden kann hat der Auftraggeber in diesem Fall das Recht, vom Vertrag zurückzutreten. Der Auftraggeber hat jedoch nach § 649 BGB die vereinbarte Vergütung oder mangels Vereinbarung eine angemessene Vergütung zu bezahlen.

Mit Erstellung der jeweiligen Abschlußberichte oder Gutachten gelten die vertraglichen Leistungen des DRRR als erbracht.

Eine Seminaranmeldung kann bis 6 Wochen kostenfrei zurückgetreten werden, danach werden die Teilnehmerkosten je nach Aufwand dem Kunden in Rechnung gestellt.

Bei einer Ringversuchabmeldung gelten folgende Kündigungsbedingungen:

Kündigungs-Zeitraum:	Dauieranmeldung <sup>(D)</sup>
	einmalige Anmeldung <sup>(E)</sup>
bis zu 3 Monate vor Ringversuchsstart	keine Kosten <sup>(D)</sup>
	50,00 € <sup>(E)</sup>
ab 3 Monate vor Ringversuchsstart - Probenversand	50,00 € <sup>(D)</sup>
	halber Ringversuchspreis <sup>(E)</sup>
Probenversand - Abgabe Ergebnisse	vollständiger Ringversuchspreis und evtl. weitere anfallende Kosten <sup>(D &amp; E)</sup>

## § 3 Fristen

Die vom DRRR angegebenen Auftragsfristen sind unverbindlich, es sei denn, deren Verbindlichkeit ist ausdrücklich schriftlich vereinbart.



**§ 4 Gewährleistung und Haftung**

Die Unversehrtheit des Probenmaterials auf eine definierte Beschaffenheit wird bei Auslandsversand nur bis zum ersten Grenzübertritt garantiert.

Sicherheitshinweis: Bei Versand von Materialien der Risikogruppe 2 muss dem DRRR ein Schreiben des Empfängers vorliegen, dass dieser für den Umgang mit gefährlichen Materialien (z.B. pathogenen Keimen) zugelassen ist.

Die Gewährleistung des DRRR umfasst nur die ihm gemäß § 2 ausdrücklich in Auftrag gegebenen Leistungen. Eine Gewähr für die Ordnungsmäßigkeit und das Funktionieren der betreffenden Gesamtanlage, Messgeräte oder Materialien, zu der die begutachteten oder geprüften Proben gehören, wird damit nicht übernommen; insbesondere trägt das DRRR keine Verantwortung für Verpackung, Materialauswahl und Bau der untersuchten Anlagen, Messgeräte oder Baugruppen, soweit diese Fragen nicht ausdrücklich Gegenstand des Auftrages sind. Auch im letzten Falle werden die Gewährleistungspflicht und die rechtliche Verantwortung des Herstellers weder eingeschränkt noch übernommen.

Die Gewährleistungspflicht des DRRR beschränkt sich auf die Nachbesserung eines Fehlers oder Mangels oder bei Fehlen einer zugesicherten Eigenschaft auf die Herbeiführung dieser Eigenschaft innerhalb einer angemessenen Frist. Schlägt die Nachbesserung oder Herbeiführung der Eigenschaft fehl, d. h., wird sie unmöglich oder dem Auftraggeber unzumutbar oder vom DRRR verweigert oder ungebührlich verzögert, ist der Auftraggeber nach seiner Wahl berechtigt, Herabsetzung der Vergütung oder Rückgängigmachung des Vertrages zu verlangen.

Bei fehlerhaften Ringversuchen oder Referenzmaterialien übernimmt das DRRR keine Haftung für entstandene Arbeitsleistungen des Kunden.

Eine Haftung von bestimmten Eigenschaften, insbesondere dafür, dass die Leistung für die Zwecke des Auftraggebers geeignet ist, übernimmt das DRRR nur, wenn eine entsprechende Zusicherung der betreffenden Eigenschaften erfolgt ist. Eine Haftung für Mangelfolgeschäden aus positiver Vertragsverletzung aufgrund zugesicherter Eigenschaften ist ausgeschlossen, sofern die Zusicherung nicht gerade vor solchen Folgeschäden schützen sollte. Schadenersatzansprüche des Auftraggebers aus §§ 463, 635 BGB wegen Fehlens zugesicherter Eigenschaften bleiben unberührt.

Beruhet ein Fehler oder Mangel, der kein Fehlen einer zugesicherten Eigenschaft darstellt, auf einem vom DRRR zu vertretenden Umstand, so haftet das DRRR für einen dem Auftraggeber hierdurch entstandenen Schaden nur je Auftrag bis zu einem Betrag der maximal dem Wert des nach § 2 vereinbarten Auftrag entspricht.

Die Verwendung der Materialien darf nur für den entsprechenden wissenschaftlichen Verwendungszweck durch ausgebildetes qualifiziertes Personal erfolgen. Das DRRR ist in keinem Fall für gebrauchte, ungebrauchte oder unbrauchbare Proben verantwortlich und zuständig.

Die Proben sind ausschließlich für analytische Zwecke bestimmt. Das DRRR übernimmt keine Haftung, wenn die Proben nicht für die bestimmten analytischen Zwecke eingesetzt werden.

Alle Materialien sind definitiv nicht für den menschlichen Verzehr geeignet, es sei denn es handelt sich um Sensorikmaterialien.

Die orale Aufnahme der nicht für sensorische Zwecke bestimmten Materialien kann zu Gesundheitsschäden führen.

Bei sensorischen Materialien ist selbstverantwortlich zu prüfen, ob die Prüfpersonen die Materialien auch im Hinblick auf Allergien testen können. Die Inhaltsstoffe der sensorischen Materialien sind deklariert.

Sämtliche Proben und Verpackungs-Materialien sind Eigentum des DRRR. Proben, die für zerstörungsfreie Prüfungen eingesetzt werden, und damit im Rahmen der Ringversuchsuntersuchung keiner Zerstörung unterliegen, können vom DRRR auf Verlangen wieder zurückgefordert werden. Die Versandkosten für den Rücktransport, sofern die Materialien zurück gefordert werden, werden vom DRRR getragen.

Die analytischen Eigenschaften des Materials werden nur dann garantiert, wenn entsprechend den vom DRRR festgelegten Transport-, Lager-, – und Verwendungsbedingungen vorgegangen wird.

Für gefrorene Proben garantiert das DRRR nur in sofern die im Datenblatt ausgewiesenen Materialeigenschaften, als dass die Proben vorschriftsmäßig behandelt werden. Für gefrorene Proben, die in Länder außerhalb der EU geliefert werden, können wir die Probeneigenschaften nur bis zur ersten Zollabfertigungsstelle an der jeweiligen EU-Grenze garantieren.

**§ 5 Ausschluss weitergehender Haftung und Ansprüche**

Die Gefahr (Transport- und Vergütungsgefahr) geht auf den Besteller über, sobald die Ware das DRRR verlassen hat, gleichgültig ob mit eigenen oder fremden Transportmitteln.

Schadensersatzansprüche des Auftraggebers sind ausgeschlossen. Dies gilt nicht bei Vorsatz, grober Fahrlässigkeit, Verletzung wesentlicher Vertragspflichten des DRRR oder des Fehlens schriftlich zugesicherter Eigenschaften.

Alle weiteren Ansprüche des Auftraggebers für unmittelbaren und mittelbaren Schaden – gleich aus welchem Rechtsgrund – insbesondere Ansprüche auf Schadensersatz wegen positiver Vertragsverletzung oder aus unerlaubter Handlung und auf Ersatz von Schäden, die nicht an dem Auftragsgegenstand selbst entstanden sind, sind ausgeschlossen. Unabhängig davon ist der Auftraggeber verpflichtet, die üblichen Versicherungen gegen unmittelbare und mittelbare Schäden abzuschließen.

**§ 6 Vergütungs- und Zahlungsbedingungen**

Die Preise sind Euro-Preise, wenn nicht anders angegeben, und verstehen sich ohne Umsatzsteuer. Diese wird zum jeweils gültigen Satz entsprechend den jeweils geltenden steuerrechtlichen Vorschriften gesondert in Rechnung gestellt.

Die Waren bleiben bis zur vollständigen Bezahlung durch den Kunden Eigentum des DRRR.

Für die Berechnung der Leistungen gelten die Entgelte nach dem jeweils gültigen Leistungsverzeichnis des DRRR, soweit nicht schriftlich ausdrücklich ein Festpreis oder eine andere Bemessungsgrundlage vereinbart ist. Bei Fehlen eines gültigen Leistungsverzeichnisses sind in jedem Fall einzelvertragliche Regelungen zu treffen. Kostenvorschüsse können verlangt werden. Ebenso können Teilrechnungen entsprechend den erbrachten Leistungen gestellt werden. Teilrechnungen müssen nicht als solche gekennzeichnet sein. Der Erhalt einer Rechnung bedeutet nicht, dass das DRRR den Auftrag vollständig abgerechnet hat.

Die Entgelte sind sofort nach Rechnungslegung, spätestens bis zu dem in der Rechnung ausgedruckten Termin zur Zahlung fällig (8 Tage netto, ohne Abzug). Es sei denn es wurde eine andere Regelung getroffen. Bei späterer Zahlung werden für den offenen Rechnungsbetrag Verzugszinsen für den Zeitraum zwischen Fälligkeit und Geldeingang in Höhe von 2% über EURIBOR in Rechnung gestellt.

Beanstandungen der Rechnungen des DRRR sind innerhalb einer Ausschlussfrist von 14 Tagen nach Erhalt der Rechnung schriftlich begründet mitzuteilen.

**§ 7 Geheimhaltung und Urheberrecht**

Das DRRR behält sich die Urheberrechte an den von ihm erstellten Gutachten, Prüfungsergebnisse, Berechnungen u. ä. vor.

Das DRRR und seine Mitarbeiter dürfen Geschäfts- und Betriebsverhältnisse, die bei der Ausübung der Tätigkeit zur Kenntnis gelangen, nicht unbefugt offenbaren oder verwerten.

Von schriftlichen Unterlagen, die dem DRRR zur Einsicht überlassen und die für die Durchführung des Auftrags von Bedeutung sind, darf das DRRR Abschriften zu ihren Akten nehmen.

Bei der Zustellung des Ringversuchsberichts und des Laborcodes via E-Mail kann keine Garantie über die Sicherstellung der Vertraulichkeit gewährt werden.

**§ 8 Gerichtsstand, Erfüllungsort, anzuwendendes Recht**

Gerichtsstand für die Geltendmachung von Ansprüchen für beide Vertragspartner ist Kempten, sofern die Voraussetzungen gemäß § 38 Zivilprozessordnung vorliegen. Dies gilt insbesondere im Mahnverfahren. Erfüllungsort für alle sich aus dem Vertrag ergebenden Verpflichtungen ist Kempten, der Sitz des Auftragnehmers. Das Vertragsverhältnis und alle Rechtsbeziehungen unterliegen ausschließlich dem zwischen inländischen Vertragspartnern geltenden Recht der Bundesrepublik Deutschland unter Ausschluss des Einheitlichen Gesetzes über den Kauf beweglicher Sachen und des Übereinkommens der Vereinten Nationen über Verträge im internationalen Warenkauf.

**§ 9 Gewährleistung von Dienstleistungen und Waren von Kooperationspartnern**

Für Referenzmaterialien, die im Namen unserer Kooperationspartner verkauft werden, gelten hinsichtlich der Haftung und Gewährleistung folgende Bedingungen:

Die Haftung unserer Kooperationspartner, seine gesetzlichen Vertreter und Erfüllungsgehilfen werden beschränkt auf Fälle von Vorsatz, grober Fahrlässigkeit, Fehlen einer zugesicherten Eigenschaft und Verletzung einer Pflicht, bei deren Nichteinhaltung der Vertragszweck gefährdet wäre. Die Haftung wird für nachgewiesene Schäden aufgrund grob fahrlässiger Verhaltensweisen auf die Höhe der Vertragsvergütung beschränkt, für Folgeschäden wird keine Haftung übernommen. Die Haftung beschränkt sich auf die Verwendung der Referenzmaterialien für die im jeweiligen Zertifikat beschriebenen Zwecke.

Unserer Kooperationspartner gewährleisten die Anwendung wissenschaftlicher Sorgfalt sowie die Einhaltung der anerkannten Regeln der Technik.

Unsere Kooperationspartner sind berechtigt, auftretende Mängel nachzubessern. Bei Fehlschlägen der Nachbesserung ist der Auftraggeber berechtigt, nach seiner Wahl Herabsetzung der Vergütung oder Rückgängigmachung des Vertrages zu verlangen. Weitergehende Gewährleistungsansprüche sind ausgeschlossen.

Die Gewährleistung wird begrenzt auf das angegebene Haltbarkeitsdatum der Referenzmaterialien. Dies gilt für: ieLab, TGZ AQS Baden-Württemberg

<b>parameter / method</b>	<b>catalogue</b>	<b>page</b>
1,3 butadiene monomer	packaging / consumer goods / plastics	B 16,44
1-Butanone,2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl)- CAS 119313-12-1	packaging / consumer goods / plastics	B 17,18,45,46
1-octen specific migration in food simulating matrix: ethanol 50%, 95% ,vegetable oil	packaging / consumer goods / plastics	B 13,43
1-Propanone, 1-[4-[(4-benzoylphenyl)thio]phenyl]-2-methyl-2-[(4-methylphenyl)sulfonyl]- CAS 272460-97-6	packaging / consumer goods / plastics	B 17,18,45,46
2,4,6-trimethylbenzoylphenyl phosphinate CAS 84434-11-7	packaging / consumer goods / plastics	B 17,18,45,46
3,3'-dichlorbenzidine	packaging / consumer goods / plastics	B 26,49
3.5 % flexural strength / Dynstat	packaging / consumer goods / plastics	B 28
5-nitro-o-toluidine	packaging / consumer goods / plastics	B 26,49
abrasion by abrasive wheels	packaging / consumer goods / plastics	B 29
abrasion resistance	packaging / consumer goods / plastics	B 29,30,32
acesulfam K	food and feed	L 16,53
acetaldehyde	packaging / consumer goods / plastics	B 16,44
acetate	food and feed	L 19,58
acetic acid bacteria	food and feed	L 30,68
acetone	packaging / consumer goods / plastics	B 25,49
acid	food and feed	L 17,21,54,56,57,62
acid-tolerant bacteria	food and feed	L 29,30
acoustics determination	building material	Ba 13,20
acrylamide	food and feed	L 17,54
acrylamide specific migration in food simulating matrix: ethanol 10%, acetic acid 3%, distilled water, olive oil	packaging / consumer goods / plastics	B 14,43
Acrylic fibres / other fibres	packaging / consumer goods / plastics	B 24
acrylonitrile specific migration in food simulating matrix: ethanol 10%, acetic acid 3%, distilled water, olive oil	packaging / consumer goods / plastics	B 14,42
actual alcohol	food and feed	L 18
Adenovirus	packaging / consumer goods / plastics	B 36,54
adhesion of multilayer pipes	packaging / consumer goods / plastics	B 29
adhesive strength	building material	Ba 13,20
aerobe spores	food and feed	L 63
aerobic bacteria	packaging / consumer goods / plastics	B 34,35,52,53
aerobic mesophilic spores	food and feed	L 23
aerobic mesophilic total count	food and feed	L 63
aerobic total count	food and feed	L 25,34,35,36,72,73
aerobic total count	packaging / consumer goods / plastics	B 36,54
aflatoxin	food / feed safety parameters and adulterants	SP 11,12,13,17,18,19
alcohol	food and feed	L 18,56
alcohol content in weight per cent and volume per cent	food and feed	L 18,56
aldrin	food / feed safety parameters and adulterants	SP 12,19
alicyclobacillus	food and feed	L 29,68
alkalinity	food and feed	L 15,51
allyl mustard oil	food and feed	L 21,62
aluminium	food / feed safety parameters and adulterants	SP 12,18
aluminium	packaging / consumer goods / plastics	B 25,48
aluminium corrosion	packaging / consumer goods / plastics	B 26

L = product catalogue food and feed; SP = product catalogue food / feed safety parameters and adulterants; B = product catalogue packaging / consumer goods plastics; Ba = product catalogue building material

<b>parameter / method</b>	<b>catalogue</b>	<b>page</b>
anaerobic mesophilic spore-forming bacteria	food and feed	L 26,66
anaerobic mesophilic sulfite-reducing spores	food and feed	L 33,71
anaerobic mesophilic total spores	food and feed	L 33,71
anaerobic total count	food and feed	L 26,66
aniline	packaging / consumer goods / plastics	B 26,49
animal species detection	food / feed safety parameters and adulterants	SP 13,20
annatto	food / feed safety parameters and adulterants	SP 13,19
anthracene	packaging / consumer goods / plastics	B 25,49
antimony	packaging / consumer goods / plastics	B 25,26,49,50
AOX	packaging / consumer goods / plastics	B 25,48
apparent density	packaging / consumer goods / plastics	B 22
apparent extract	food and feed	L 18,56
apparent interlaminar shear strength	packaging / consumer goods / plastics	B 30
arsenic	food and feed	L 19,59
arsenic	food / feed safety parameters and adulterants	SP 11,12,18
arsenic	packaging / consumer goods / plastics	B 25,49
artificial saliva	packaging / consumer goods / plastics	B 26,50
artificial sweat	packaging / consumer goods / plastics	B 26,50
ascorbic acid (vitamin C)	food and feed	L 16,17,19,21,53, 54,55,58,62
ash	food and feed	<sup>L</sup> 14,15,16,17,18, 19,20,48,49,50, 51,52,53,54,55, 57,58,59,60,61
ash content	packaging / consumer goods / plastics	B 19
aspartame	food and feed	L 16,53
Aspergillus niger	packaging / consumer goods / plastics	B 36,54
asperity Height	packaging / consumer goods / plastics	B 31
aw-value	food and feed	L 19,58
azo dyes	packaging / consumer goods / plastics	B 24,48
B.cereus	food and feed	<sup>L</sup> 24,26,34,64,66
Bacillus subtilis-Spores	packaging / consumer goods / plastics	B 36,54
bactericidal activity	packaging / consumer goods / plastics	B 36,54
ball indentation hardness	packaging / consumer goods / plastics	B 28
barium	packaging / consumer goods / plastics	B 26,50
basic test (triangle test, ranking test)	food and feed	L 38,39,74,75
BBP	packaging / consumer goods / plastics	B 16,43
beef	food / feed safety parameters and adulterants	SP 13,20
benzisothiazolinone (BIT)	packaging / consumer goods / plastics	B 26,49,50
benzo(a)anthracene	packaging / consumer goods / plastics	B 25,49
benzo(a)pyren	packaging / consumer goods / plastics	B 25,49
benzo(b)fluoranthen	packaging / consumer goods / plastics	B 25,49
benzo(e)pyren	packaging / consumer goods / plastics	B 25,49
benzo(j)fluoranthen	packaging / consumer goods / plastics	B 25,49
benzo(k)fluoranthen	packaging / consumer goods / plastics	B 25,49
benzoic acid	food and feed	L 16,18,19,21,53, 56,57,59,62
benzoic acid	packaging / consumer goods / plastics	B 25,48
beta-lacto-globuline	food / feed safety parameters and adulterants	SP 13,19
Bifidobacteria	food and feed	L 34
biotin	food and feed	L 20,6
Bis(2,4,6-trimethylbenzoyl)-phenylphosphineoxide CAS 162881-26-7	packaging / consumer goods / plastics	B 17,18,45,46
L = product catalogue food and feed; SP = product catalogue food / feed safety parameters and adulterants; B = product catalogue packaging / consumer goods plastics; Ba = product catalogue building material		

<b>parameter / method</b>	<b>catalogue</b>	<b>page</b>
bisphenol A monomer	packaging / consumer goods / plastics	B 16,44
Bisphenol A specific migration in food simulating matrix: distilled water, acetic acid 3%, ethanol 10%, olive oil	packaging / consumer goods / plastics	B 14,43
BMDM	packaging / consumer goods / plastics	B 25,49
body hook	packaging / consumer goods / plastics	B 31,51
body hook butting contact A and B	packaging / consumer goods / plastics	B 31,51
brix-value	food and feed	L 16,17,53,55
bulk density	food and feed	L 14,52
burning rate	packaging / consumer goods / plastics	B 20,22,24
burst test	packaging / consumer goods / plastics	B 31,51
bursting distension	packaging / consumer goods / plastics	B 32
bursting strength	packaging / consumer goods / plastics	B 32
butylparaben	packaging / consumer goods / plastics	B 25,48
butyric acid ethyl ester	food and feed	L 19,59
butyric acid methyl ester	food and feed	L 15,20,51,60
C.albicans	packaging / consumer goods / plastics	B 35,36,53,54
C.perfringens	food and feed	L 26,34,66
cadmium	food / feed safety parameters and adulterants	SP 12,18
cadmium	packaging / consumer goods / plastics	B 24,26,48,50
caffeine	food and feed	L 17,21,54,62
calcium	food and feed	L 15,17,18,19,20,51,55,56,58,60,61
campylobacter spp.	food and feed	L 23,32,63,70
caprolactam specific migration in food simulating matrix: ethanol 10%; 20%; 50%, acetic acid 3%, distilled water, vegetable oil	packaging / consumer goods / plastics	B 13,42
Capsaicin	food and feed	L 16,53
Carbendazim	food / feed safety parameters and adulterants	SP 12,18
carbohydrate	food and feed	L 16,21,53,61
Carbon black content	packaging / consumer goods / plastics	B 22
carotene	food and feed	L 15,17,51
carotenoid	food and feed	L 17,54
CAS 119313-12-1: 1-Butanone,2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl)-	packaging / consumer goods / plastics	B 17,18,45,46
CAS 15625-89-5: Tri(methylolpropan)triacrylate (TMPTA)	packaging / consumer goods / plastics	B 17,18,45,46
CAS 162881-26-7: Bis(2,4,6-trimethylbenzoyl)-phenylphosphineoxide	packaging / consumer goods / plastics	B 17,18,45,46
CAS 272460-97-6:1-Propanone,1-[4-(4-benzoylphenyl)thio]phenyl]-2-me	packaging / consumer goods / plastics	B 17,18,45,46
CAS 42978-66-5:Tri(propylene glycol)diacrylate (TPGDA)	packaging / consumer goods / plastics	B 17,18,45,46
CAS 57472-68-1: Dipropylene glycol diacrylate (DPGDA)	packaging / consumer goods / plastics	B 17,18,45,46
CAS 84434-11-7:2,4,6-trimethylbenzoylphenyl phosphinate	packaging / consumer goods / plastics	B 17,18,45,46
CAS 94108-97-1: Di(tri-methylolpropan)tetraacrylat (Di-TMPTA),	packaging / consumer goods / plastics	B 17,18,45,46
casein	food and feed	L 14,49
casein	food / feed safety parameters and adulterants	SP 13,19
cellular plastics	packaging / consumer goods / plastics	B 22
charpy flexural impact test polyamide	packaging / consumer goods / plastics	B 29
charpy impact strength	packaging / consumer goods / plastics	B 28
charpy impact test	packaging / consumer goods / plastics	B 29
charpy notched impact strength	packaging / consumer goods / plastics	B 28
chloramphenicol	food / feed safety parameters and adulterants	SP 12,19
chloride	food and feed	14,15,16,18,19, L 21,50,51,53,56, 57,58,59,62
chloride content	building material	Ba 11,19

L = product catalogue food and feed; SP = product catalogue food / feed safety parameters and adulterants; B = product catalogue packaging / consumer goods plastics; Ba = product catalogue building material



<b>parameter / method</b>	<b>catalogue</b>	<b>page</b>
chlorogenic acid	food and feed	L 17,54
chloromethylisothiazolinone	packaging / consumer goods / plastics	B 26,50
cholesterol	food and feed	L 15,18,20,51,57,60
chromium	packaging / consumer goods / plastics	B 24,48
chrysene	packaging / consumer goods / plastics	B 25,49
citric acid	food and feed	L 14,16,17,18,19,50,53,55,56,58,59
citric acid - isocitric acid ration	food and feed	L 17,55
Clostridia	food and feed	L 26,33,66,71
coagulase-positive Staphylococcus	food and feed	L 24,27,31,34,64,66,70
cobalamin (vitamin B12)	food and feed	L 17,54
cobalt	packaging / consumer goods / plastics	B 25,26,49,50
cocamidopropyl betaine (CAPB)	packaging / consumer goods / plastics	B 25,49
cochenille red A	food and feed	L 15,51
coco-glucoside	packaging / consumer goods / plastics	B 25,49
coefficient of linear thermal expansion (CTLE)	packaging / consumer goods / plastics	B 19
coefficients of friction	packaging / consumer goods / plastics	B 28,51
coliforme bacteria	food and feed	L 25,34,35,36,72,73
coliforme total count	food and feed	L 25,65
collagen	food and feed	L 19,58
collagen degradation products	food and feed	L 19,58
colour fastness	packaging / consumer goods / plastics	B 24,26,32,50
colour fastness testing with distilled water, acetic acid 3%, olive oil	packaging / consumer goods / plastics	B 23,47
colour Measurement	packaging / consumer goods / plastics	B 21,24
colouring agent	food and feed	L 15,51
complex shear viscosity (parallel-plate)	packaging / consumer goods / plastics	B 20
compression set	packaging / consumer goods / plastics	B 30
compression test	packaging / consumer goods / plastics	B 28,30
compressive properties	packaging / consumer goods / plastics	B 30
compressive strength	building material	Ba 13,20
conductivity	food and feed	L 21,62
contact angle and surface energy	packaging / consumer goods / plastics	B 21
copper	food and feed	L 17,20,55,61
copper	food / feed safety parameters and adulterants	SP 12,18
copper	packaging / consumer goods / plastics	B 25,48
cover hook	packaging / consumer goods / plastics	B 31,51
cronobacter spp.	food and feed	L 26,34,66
cryptoxanthin Ester	food and feed	L 17,54
crystallization kinetics	packaging / consumer goods / plastics	B 19
curcumin	food and feed	L 15,51
cutting of specimen	packaging / consumer goods / plastics	B 29
cyclamate	food and feed	L 19,59
DBP	packaging / consumer goods / plastics	B 15,43
deflection temperature under flexural load	packaging / consumer goods / plastics	B 19
DEHP	packaging / consumer goods / plastics	B 15,43
demand absorbency	packaging / consumer goods / plastics	B 24
density	building material	Ba 11,19
density	food and feed	L 14,18,49,56
density	packaging / consumer goods / plastics	B 19,22,25,48

L = product catalogue food and feed; SP = product catalogue food / feed safety parameters and adulterants; B = product catalogue packaging / consumer goods plastics; Ba = product catalogue building material

<b>parameter / method</b>	<b>catalogue</b>	<b>page</b>
descriptive testing	packaging / consumer goods / plastics	B 38,55
determination after 0, 2, 7, 14 and 28 days of all 5 relevant microorganism in O/W-emulsion	packaging / consumer goods / plastics	B 35
dexpanthenol	packaging / consumer goods / plastics	B 25,48
di(tri-methylolpropan)tetraacrylat (Di-TMPTA) CAS 94108-97-1	packaging / consumer goods / plastics	B 17,18,45,46
diacetyl (triangle test, ranking test)	food and feed	L 39,74
diastase activity	food and feed	L 21,62
dibenz(ah)anthracene	packaging / consumer goods / plastics	B 25,49
DIDP	packaging / consumer goods / plastics	B 15,43
dieldrin	food / feed safety parameters and adulterants	SP 12,19
di-ethylene glycol in food simulating matrix: ethanol 10%; 20%; 50%, acetic acid 3%, distilled water, vegetable oil	packaging / consumer goods / plastics	B 14
diethylenglycol	food and feed	L 18,56
dimensional change in washing	packaging / consumer goods / plastics	B 32
dimensional stability	packaging / consumer goods / plastics	B 31
DINP	packaging / consumer goods / plastics	B 15,43
dioxine	food / feed safety parameters and adulterants	SP 12,19
diphosphorus pentoxide (P2O5)	food and feed	L 19,58
dipropylene glycol diacrylate (DPGDA) CAS 57472-68-1	packaging / consumer goods / plastics	B 17,18,45,46
distribution of fatty	food and feed	L 21,62
DNOP	packaging / consumer goods / plastics	B 15,43
docosahexaenoic acid	food and feed	L 18
DON	food / feed safety parameters and adulterants	SP 11,12,17,18
double seam test: countersink depth	packaging / consumer goods / plastics	B 31,51
dry bulk density	building material	Ba 11,19
dry matter	food and feed	L 14,15,16,17,18, 20,21,45,46,47, 48,49,50,51,52, 53,54,57,59,60, 62
dry residue	packaging / consumer goods / plastics	B 25,48
DSC Analysis	packaging / consumer goods / plastics	B 19,22,24
dynamic-machanical-Analysis (DMA)	packaging / consumer goods / plastics	B 29
dynstat impact strength	packaging / consumer goods / plastics	B 28
E.coli	food and feed	L 23,24,26,29,30, 31,34,35,36,63, 64,65,68,69,70, 72,73
E.coli	packaging / consumer goods / plastics	B 35,53
egg content	food and feed	L 18,57
egg yolk content	food and feed	L 18,57
EHEC O104	food and feed	L 23
EHEC O157	food and feed	L 23
EHS	packaging / consumer goods / plastics	B 25,49
EHT	packaging / consumer goods / plastics	B 25,49
eicosapentaenoic acid	food and feed	L 18
energy	food and feed	L 21,61
enterobacteriaceae	food and feed	L 23,24,25,30,31, 34,63,64,65,69, 70
enterococcus	food and feed	L 26,34,35,36,65, 72,73
EOX	packaging / consumer goods / plastics	B 25,48
ergosterol	food / feed safety parameters and adulterants	SP 12,18
erichsen Hardness test pencil	packaging / consumer goods / plastics	B 21
L = product catalogue food and feed; SP = product catalogue food / feed safety parameters and adulterants; B = product catalogue packaging / consumer goods plastics; Ba = product catalogue building material		

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ethanol	food and feed	L 21,62
ethanol	packaging / consumer goods / plastics	B 25,49
ethyl carbamate	food and feed	L 18,56
ethylene glycol in food simulating matrix:ethanol 10%; 20%; 50%, acetic acid	packaging / consumer goods / plastics	B 14
ethylenglycol	food and feed	L 18,56
ethylparaben	packaging / consumer goods / plastics	B 25,48
examination for panels	food and feed	L 38,39,74,75
examination for panels	packaging / consumer goods / plastics	B 38,55
expansion measurements	packaging / consumer goods / plastics	B 31,51
Exposure to laboratory light - Fluorescent UV lamps	packaging / consumer goods / plastics	B 21
extract	food and feed	L 18,56
falling number	food and feed	L 20,59
fat	food and feed	L 14,15,16,18,19, 20,21,45,46,47, 48,49,50,51,52, 53,57,58,59,60, 61,62
fat	packaging / consumer goods / plastics	B 25,48
fatty acid composition	food and feed	L 15,51
ferment accompanying substances	food and feed	L 18,56
fermentable sugar	food and feed	L 18,56
fibre	food and feed	L 16,18,20,21,53, 57,60,61
fibre blend	packaging / consumer goods / plastics	B 24
fibre blend made from polyester/cotton	packaging / consumer goods / plastics	B 24
fibre lenght	packaging / consumer goods / plastics	B 21
film thickness	packaging / consumer goods / plastics	B 28,51
flame retardants	packaging / consumer goods / plastics	B 24,48
flavour (triangle test, ranking test)	food and feed	L 38,39,74,75
flexural and compressive strength	building material	Ba 13,20
flexural properties	packaging / consumer goods / plastics	B 30
flexural strength	building material	Ba 13,20
flexural test	packaging / consumer goods / plastics	B 29
fluidity of plastics using capillary rheometer	packaging / consumer goods / plastics	B 20
fluoride	packaging / consumer goods / plastics	B 25,48
fogging behaviour	packaging / consumer goods / plastics	B 21
folic acid (vitamin B11)	food and feed	L 17,20,54,60
food simulating matrix: Tenax	packaging / consumer goods / plastics	B 23,47
foreign fat	food and feed	L 15,51
formaldehyde	packaging / consumer goods / plastics	B 14,23,24,25,47, 48
formaldehyde emission	packaging / consumer goods / plastics	B 21
formaldehyde testing of: distilled water, acetic acid 3%, ethanol 10%, olive oil	packaging / consumer goods / plastics	B 14,43
free acids	food and feed	L 21,62
free and hydrolised formaldehyde	packaging / consumer goods / plastics	B 24,48
free and total sulfurous acid	food and feed	L 18,56
free butyric acid	food and feed	L 19,20,59,60
free fat	food and feed	L 16,52
free fatty acids	food and feed	L 14,15,49,51
freeze thaw resistance-scaling	building material	Ba 11,19
freezing point	food and feed	L 14,45,46,47,49
fructose	food and feed	L 16,17,18,20,21, 53,55,56,57,60, 62

L = product catalogue food and feed; SP = product catalogue food / feed safety parameters and adulterants; B = product catalogue packaging / consumer goods plastics; Ba = product catalogue building material

<b>parameter / method</b>	<b>catalogue</b>	<b>page</b>
fumaric acid	food and feed	L 18,56
fumonisin	food / feed safety parameters and adulterants	SP 11,17
fungicidal / yeasticidal activity	packaging / consumer goods / plastics	B 36,54
gas transmission rate (OTR)	packaging / consumer goods / plastics	B 16,44
glass transition temperature	packaging / consumer goods / plastics	B 19
gliadin	food / feed safety parameters and adulterants	SP 13,19
glow wire ignitability temperature (GWIT)	packaging / consumer goods / plastics	B 20
gluconolacton	food and feed	L 17,54
glucose	food and feed	L 14,16,17,18,20, 21,49,53,55,56, 57,60,62
glucose - fructose ration	food and feed	L 17,55
glutamic acid	food and feed	L 19,58
gluten	food and feed	L 20,59
glycerin	food and feed	L 18,21,56,62
glycol	packaging / consumer goods / plastics	B 25,49
glyosal	packaging / consumer goods / plastics	B 23,47
glyphosat	food / feed safety parameters and adulterants	SP 11,18
gram-negative bacteria	food and feed	L 29,30
hardness	food and feed	L 15
heat transfer	building material	Ba 11,19
hesperidin	food and feed	L 17,55
HMF	food and feed	L 21,62
horse	food / feed safety parameters and adulterants	SP 13,20
hydrocyanic acid	food and feed	L 18,56
hydrostatic pressure test	packaging / consumer goods / plastics	B 32
hydroxyproline	food and feed	L 19,58
identification of variable germs	packaging / consumer goods / plastics	B 34,53
identification of variable micro organisms	food and feed	L 35,72
increase in mass	packaging / consumer goods / plastics	B 22
index Puncture Resistance	packaging / consumer goods / plastics	B 31
industrial washing and colour change	packaging / consumer goods / plastics	B 32
Infrared spectroscopy	packaging / consumer goods / plastics	B 20
injection moulding of specimen type 1A	packaging / consumer goods / plastics	B 29
inosit	food and feed	L 17,54
instrumented impact test	packaging / consumer goods / plastics	B 28
intensity estimation	packaging / consumer goods / plastics	B 38,55
iodine	food and feed	L 19,20,21,59,60, 62
IRHD-Hardness	packaging / consumer goods / plastics	B 30
iron	food and feed	L 17,20,55,60,61
iron	food / feed safety parameters and adulterants	SP 12,18
isocitric-acid	food and feed	L 17,55
isopropyl alcohol	packaging / consumer goods / plastics	B 25,49
Izod impact strength	packaging / consumer goods / plastics	B 28
lactat	food and feed	L 19,58
lactic acid	food and feed	L 14,15,16,17,18, 19,49,50,51,52, 53,55,56,58
lactic acid bacteria	food and feed	L 29
lactobacillus	food and feed	L 26,30,32,33,66, 68,70,71
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lactose	food / feed safety parameters and adulterants	SP 13,19
lactose	food and feed	L 14,15,16,21,45, L 46,47,48,49,50, 51,52,62
lead	food / feed safety parameters and adulterants	SP 12,18
lead	packaging / consumer goods / plastics	B 24,25,26,48,49, 50
light fastness	packaging / consumer goods / plastics	B 21
listeria monocytogenes	food and feed	L 24,27,28,32,33, L 34,64,65,66,67, 70,71
loss of ignition	building material	Ba 11,19
magnesium	food and feed	L 17,18,20,55,56, 60,61
malic acid	food and feed	L 16,17,18,53,55, 56
maltose	food and feed	L 16,21,53,62
manganese	food and feed	L 20,61
mass per unit area of polyester and viscose	packaging / consumer goods / plastics	B 32
mass percentage of reactive CaO	building material	Ba 11,19
measuring Core Thickness	packaging / consumer goods / plastics	B 31
measuring the Nominal Thickness	packaging / consumer goods / plastics	B 31
melamine specific migration in food simulating matrix: ethanol 10%, acetic	packaging / consumer goods / plastics	B 14,43
melt flow / volume rate	packaging / consumer goods / plastics	B 20
melt flow and volume index MFR/MVR	packaging / consumer goods / plastics	B 20
melting temperature	packaging / consumer goods / plastics	B 19
mercury	food / feed safety parameters and adulterants	SP 12,18
mercury	packaging / consumer goods / plastics	B 24,25,48,49
mesophilic total count	packaging / consumer goods / plastics	B 34,52
metabolites of nitrofurans	food / feed safety parameters and adulterants	SP 12,19
methanol	food and feed	L 18,56
methylisothiazolinone	packaging / consumer goods / plastics	B 25,26,48,50
methylparaben	packaging / consumer goods / plastics	B 25,48
milkfat	food and feed	L 15,19,20,21,59, 60,62
mineral oil residues	packaging / consumer goods / plastics	B 23,25,47,49
MOAH C10 - C50	packaging / consumer goods / plastics	B 25,49
MOAH C16-C25	packaging / consumer goods / plastics	B 23,47
MOAH C25-C35	packaging / consumer goods / plastics	B 23,47
moisture	food and feed	L 20,60,61
mono-layer films	packaging / consumer goods / plastics	B 15,43
monounsaturated fatty acids	food and feed	L 19,58
mooney viscosity	packaging / consumer goods / plastics	B 22
MOSH C10 - C50	packaging / consumer goods / plastics	B 25,49
MOSH C16-C25	packaging / consumer goods / plastics	B 23,47
MOSH C25-C35	packaging / consumer goods / plastics	B 23,47
moulds	building material	Ba 15,21
moulds	food and feed	L 24,25,28,29,64, 65,67,68
moulds	packaging / consumer goods / plastics	B 34,52,53
multi-layer films	packaging / consumer goods / plastics	B 15,43
multiple stone impact test	packaging / consumer goods / plastics	B 32
mycobactericidal / tuberculocidal activity	packaging / consumer goods / plastics	B 36,54
Mycobacterium avium	packaging / consumer goods / plastics	B 36,54
Mycobacterium terrae	packaging / consumer goods / plastics	B 36,54
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naphthalene	packaging / consumer goods / plastics	B 25,49
natamycin	food / feed safety parameters and adulterants	SP 13,19
neutral salt spray test (NSS-test)	packaging / consumer goods / plastics	B 21
niacin (vitamin B3)	food and feed	L 17,54
nickel	packaging / consumer goods / plastics	B 24,25,26,48,49,50
nicotine	food / feed safety parameters and adulterants	SP 12,19
nitrate	food and feed	L 14,15,16,17,19,50,52,55,58
nitrite	food and feed	L 16,19,52,58
NPN	food and feed	L 14,15,19,49,51,58
o-anisidine	packaging / consumer goods / plastics	B 26,49
OC	packaging / consumer goods / plastics	B 25,49
ochratoxin	food / feed safety parameters and adulterants	SP 11,12,17,18
o-dianisidine	packaging / consumer goods / plastics	B 26,49
odourtest	packaging / consumer goods / plastics	B 21
organic carbon	building material	Ba 11,19
osmolality	food and feed	L 20,61
osmophilic moulds	food and feed	L 28,67
osmophilic yeasts	food and feed	L 28,67
o-toluidine	packaging / consumer goods / plastics	B 26,49
overall migrat in simulating matrix: ethanol 10%; 20%; 50%, acetic acid 3%, distilled water	packaging / consumer goods / plastics	B 15,43
overall migration by using Tenax (MPPO) as a simulant	packaging / consumer goods / plastics	B 16,23,44,47
overall migration in food simulating matrix: ISO-octane, ethanol 95%	packaging / consumer goods / plastics	B 13,42
overall migration in food simulating matrix: olive oil	packaging / consumer goods / plastics	B 13,42
overall migration in food simulating matrix: ethanol 10%; 20%; 50%, acetic acid 3%, distilled water, olive oil	packaging / consumer goods / plastics	B 13,42
overall migration in food simulating matrix: ethanol 10%; 20%; 50%, acetic acid 3%, distilled water, olive oil	packaging / consumer goods / plastics	B 13,42
overlap	packaging / consumer goods / plastics	B
oxidation Induction time (OIT)	packaging / consumer goods / plastics	B 19
paints and varnishes - Cross-cut test	packaging / consumer goods / plastics	B 29
pantothenic acid (vitamin B5)	food and feed	L 17,20,54,60
PBSA	packaging / consumer goods / plastics	B 25,49
PCB 101	food / feed safety parameters and adulterants	SP 12,19
permeability of fabrics to air	packaging / consumer goods / plastics	B 24
peroxide	food and feed	L 21,62
peroxide value	food and feed	L 15,51
PHB-ester	food and feed	L 21,62
phenoxyethanol	packaging / consumer goods / plastics	B 25,48
phosphate	food and feed	L 18,56
phosphatides	food and feed	L 14,49
phosphatid-P2O5	food and feed	L 18,57
phosphorus	food and feed	L 14,15,16,17,20,49,50,51,53,55
pH-value	food and feed	L 14,15,16,17,18,19,21,49,50,51,52,53,54,55,57,58,62
pH-value	packaging / consumer goods / plastics	B 23,24,25,47,48
p-hydroxybenzaldehyde	food and feed	L 15,51
p-hydroxybenzoic acid	food and feed	L 15,51
pilling properties	packaging / consumer goods / plastics	B 32
pirocton-olamine	packaging / consumer goods / plastics	B 25,49

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plastic granules	packaging / consumer goods / plastics	B 15,43
Poliovirus	packaging / consumer goods / plastics	B 36,54
Polyamide fibres / other fibres	packaging / consumer goods / plastics	B 24
polyester / cotton	packaging / consumer goods / plastics	B 24
Polyester fibres / cotton	packaging / consumer goods / plastics	B 24
potassium	food and feed	L 15,16,17,18,20, 51,53,55,56,60, 61
profile testing	food and feed	L 39,74,75
profile testing	packaging / consumer goods / plastics	B 38,55
proline	food and feed	L 21,62
propionic acid	food and feed	L 20,59
propylenglycol	food and feed	L 18,56
propylparaben	packaging / consumer goods / plastics	B 25,48
protein	food and feed	L 14,15,16,18,19, 20,21,45,46,47, 48,49,50,51,52, 57,58,59,60,61, 62
Protein fibres 7 Other fibres	packaging / consumer goods / plastics	B 24
Ps.aeruginosa	food and feed	L 35,72
Ps.aeruginosa	packaging / consumer goods / plastics	B 35,36,53,54
pseudomonas spp.	food and feed	<sup>L</sup> 31,34,36,70,73
psychrotrophic total count	food and feed	L 23,63
pyridoxine (vitamin B6)	food and feed	L 17,21,54,62
ranking test	food and feed	L 38,39,74,75
raw protein	food and feed	L 16,18,19,20,53, 57,59,60
rebound resilience	packaging / consumer goods / plastics	B 30
relative density 20 °C / 20 °C	food and feed	L 17,18,55,56
resistance to internal pressure	packaging / consumer goods / plastics	B 29
retinolpalmitate	packaging / consumer goods / plastics	B 25,48
riboflavine (vitamin B2)	food and feed	L 17,21,54,62
roughness	packaging / consumer goods / plastics	B 21
S.aureus	packaging / consumer goods / plastics	B 35,36,53,54
saccharase number	food and feed	L 21,62
saccharin	food and feed	L 16,19,53,59
salicyclic acid	food and feed	L 18,56
salmonella spp.	food and feed	<sup>L</sup> 24,26,27,29,30, 31,32,33,34,65, 66,68,69,70,71
saponification	food and feed	L 21,62
saturated fatty acids	food and feed	L 16,19,21,53,58, 61
scratch resistance	packaging / consumer goods / plastics	B 21
sealed-seam strength	packaging / consumer goods / plastics	B 28
seam height	packaging / consumer goods / plastics	B 31,51
seam thickness	packaging / consumer goods / plastics	B 31,51
secant modulus of elasticity	building material	Ba 13,20
security measurement	packaging / consumer goods / plastics	B 31,51
semimicro butyric acid number	food and feed	L 19,20,59,60
shigella	food and feed	L 26,66
shore-A-Hardness	packaging / consumer goods / plastics	B 30
shore-D-Hardness	packaging / consumer goods / plastics	B 28
simple descriptive testing	packaging / consumer goods / plastics	B 38,55

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simple descriptive testing	food and feed	L 39,74,75
Slippage resistance of yarns	packaging / consumer goods / plastics	B 32
sodium	food and feed	L 14,1516,17,18,19,20,21,50,5153,55,56,58,59,60,61
sodium acetate	food and feed	L 19,58
sodium Laureth Sulfate	packaging / consumer goods / plastics	B 25,49
sodium nitrate	food and feed	L 19,58
sodium nitrite	food and feed	L 19,58
solids non-fat	food and feed	L 15,51
soluble dry matter	food and feed	L 16,53
solvent extract	packaging / consumer goods / plastics	B 22
sorbate	food and feed	L 16,53
sorbic acid	food and feed	L 16,18,19,21,53,56,57,58,59,62
sorbic acid	packaging / consumer goods / plastics	B 25,48
soy	food / feed safety parameters and adulterants	SP 11,13,18,19,20
specular gloss at 60°	packaging / consumer goods / plastics	B 21
spores of aerobic spore-forming bacteria	packaging / consumer goods / plastics	B 34,52
sporicidal activity	packaging / consumer goods / plastics	B 36,54
SRC	food and feed	L 34
β-carotene	food and feed	L 15,17,51,55
β-lacto-globuline	food / feed safety parameters and adulterants	SP 13,19
stability	building material	Ba 13,20
staphylococcus	food and feed	L 24,27,31,34,64,66,70
starch	food and feed	L 16,20,53,59,60
static E-Modulus	building material	Ba 13,20
static Puncture Test (CBR-Test)	packaging / consumer goods / plastics	B 31
steam jet test	packaging / consumer goods / plastics	B 32
sterility testing	packaging / consumer goods / plastics	B 34,52
sterilization of medical devices	packaging / consumer goods / plastics	B 36,54
sterine	food and feed	L 18,57
streptococci	food and feed	L 36,73
streptomycine	food / feed safety parameters and adulterants	SP 12,19
stress Crack Resistance	packaging / consumer goods / plastics	B 22
strontium	packaging / consumer goods / plastics	B 26,5
sucrose	food and feed	L 14,16,17,18,20,21,49,53,54,55,56,57,59,60,62
sugar	food and feed	L 17,21,55,61
sugar free extract	food and feed	L 17,55
sulfate	food and feed	L 15,18,51,56
sulfite-reducing Clostridia	food and feed	L 26,33,66,71
sulphur dioxide SO <sub>2</sub>	food and feed	L 16,21,53,62
sulphur dioxide SO <sub>2</sub>	food / feed safety parameters and adulterants	SP 12,18
sunlight simulation	packaging / consumer goods / plastics	B 21
surface bacteria count	packaging / consumer goods / plastics	B 34,52
swine	food / feed safety parameters and adulterants	SP 13,20
swine DNA	food / feed safety parameters and adulterants	SP 13,20

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tartaric acid	food and feed	L 18,56
taurine	food and feed	L 17,54
tear properties - trouser shaped specimen	packaging / consumer goods / plastics	B 32
tear resistance	packaging / consumer goods / plastics	B 28,31,51
tear strength	packaging / consumer goods / plastics	B 30
temperature of deflection under load	packaging / consumer goods / plastics	B 19
Tenax	packaging / consumer goods / plastics	B 16,23,44,47
tensile creep E	packaging / consumer goods / plastics	B 28
tensile properties	packaging / consumer goods / plastics	B 30,31,32
tensile strength and elongation at break	packaging / consumer goods / plastics	B 30
tensile test	packaging / consumer goods / plastics	B 28,29,31,51
tension set	packaging / consumer goods / plastics	B 30
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rice wafers	food / feed safety parameters and adulterants	SP 11,17
sauce	food and feed	L 16,53
sauerkraut	food and feed	L 16,53
seafood	food and feed	L 32,71
semi hard cheese	food and feed	L 15,50
shampoo	packaging / consumer goods / plastics	B 25,48
skimmed milk powder	food and feed	L 16,52
soap	packaging / consumer goods / plastics	B 25,48
soft cheese	food and feed	L 15,50
solvents	packaging / consumer goods / plastics	B 25,49
sour cream - crème fraiche	food and feed	L 14,49
spice powder	food and feed	L 33,71
sugar mix (fruit preparation)	food and feed	L 16,53
L = product catalogue food and feed; SP = product catalogue food / feed safety parameters and adulterants; B = product catalogue packaging / consumer goods plastics; Ba = product catalogue building material		

<b>matrix</b>	<b>catalogue</b>	<b>page</b>
sugar solution	food and feed	L 28,67
surface- and waste water (bath water)	food and feed	L 36,73
swine feed	food / feed safety parameters and adulterants	SP 12,17
synthetic samples	packaging / consumer goods / plastics	B 15,18,43,46
tattoo ink, chemistry	packaging / consumer goods / plastics	B 35,53
tattoo ink, microbiology	packaging / consumer goods / plastics	B 26,49
tea, chemistry	food and feed	L 17,53
tea, microbiology	food and feed	L 29
textiles	packaging / consumer goods / plastics	B 24,48
threshold value examination off flavour	packaging / consumer goods / plastics	B 38,55
tinned food, microbiology	packaging / consumer goods / plastics	B 34,52
tinplate cans	packaging / consumer goods / plastics	B 31,51
tomato juice	food / feed safety parameters and adulterants	SP 12,17
tomato ketchup	food and feed	L 16,53
toys	packaging / consumer goods / plastics	B 26,50
UHT milk	food and feed	L 14,49
UL 94 HB	packaging / consumer goods / plastics	B 20
UL 94 V	packaging / consumer goods / plastics	B 20
UV filter	packaging / consumer goods / plastics	B 25,49
VDA 270 / PV 3900	packaging / consumer goods / plastics	B 21
VDA 275 / PV 3925	packaging / consumer goods / plastics	B 21
VDA 277 / PV 3341	packaging / consumer goods / plastics	B 21
VDA 278	packaging / consumer goods / plastics	B 21
VDA 75202 / ISO 105-B06	packaging / consumer goods / plastics	B 21
vegetables, microbiology	food and feed	L 28,67
vegetarian sausage substitute	food and feed	L 19,58
vitamin solution	food and feed	L 17,53
water, organoleptic	food and feed	L 38,74
wheat	food / feed safety parameters and adulterants	SP 11,17
whey	food and feed	L 15,51
whey concentrate	food and feed	L 48
whey powder	food and feed	L 16,52
whole milk powder	food and feed	L 16,52
wine	food and feed	L 18,56
wine, organoleptic	food and feed	L 39,74
yoghurt, chemistry	food and feed	L 15,51
yoghurt, organoleptic	food and feed	L 39,75
L = product catalogue food and feed; SP = product catalogue food / feed safety parameters and adulterants; B = product catalogue packaging / consumer goods plastics; Ba = product catalogue building material		