Deutsches
Referenzbüro für
Ringversuche und
Referenzmaterialien

Material testing

Product catalogue 2025

Bildquelle:
iStock.com/JazzIRT

Index

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

DRRR - The company

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

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 per year

Accreditation ISO/IEC 17043:2023 (A2LA)

The DRRR is an accredited proficiency testing provider by A2LA according to ISO/IEC 17043:2023. The accreditation is only valid for the matrices/parameters listed on the A2LA scope of accreditation certificate [#5494.01].

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

Accredited PT-provider

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

Proficiency testing

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

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 laboartories 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

Individual Proficiency testing

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

In addition to our standard programme, DRRR GmbH can organise customer-specific proficiency tests that are individually designed to your needs. Due to many years of experience in a wide range of testing and analytical areas, we are your contact for such queries.

Your customised proficiency test

Examples of customised proficiency tests carried out by DRRR:

- Qualification programmes for the automotive industry
- Qualification programmes for the textile industry
- Proficiency tests to verify methodological expertise in the area of consumer goods
- Group-wide proficiency tests to improve comparability in the area of consumer goods
- Qualification programmes in the area of food monitoring
- Association-specific proficiency tests for the fruit juice industry

Benefit from our high quality standards in all important fields of testing.

Your proficiency testing project is planned in close co-operation with the project partners. Depending on your requirements, all steps, from registration to report, can be taken over.

Statistical know-how, expertise and the established, customer-oriented processes of the DRRR ensure the successful organisation of your proficiency testing project.

Get in touch with us.

We look forward to working with you!

Proficiency tests - Thermoplastics

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
					Login or register
Plastics - mechanical properties (ISO):					
2010988	**ISO 527-1,-2**	☐	Tensile test	Apr-25	
2010765	**ISO 527-1,-2**	☐	Tensile Test at +80°C	Apr-25	
2010766	**ISO 527-1,-2**	☐	Tensile Test at -30°C	Apr-25	
2010881	**ISO 899-1**	☐	Tensile creep	Apr-25	
2010989	**ISO 178**	☐	Flexural test	Apr-25	
2010004	**ISO 16770**	☐	Full-notch creep test (FNCT)	Apr-25	
2010756	**ISO 604**	☐	Compression test (strength, elongation)	Apr-25	
2010773	**ISO 179-1 (1eU)**	☐	Charpy impact	Apr-25	
2010782	**ISO 179-1 (1eA)**	☐	Notched Charpy impact	Apr-25	
2010824	**ISO 179-1**	☐	Charpy impact at -30°C	Apr-25	
2010774	**ISO 180**	☐	Izod impact	Apr-25	
2010884	**DIN 53435**	☐	Impact test on dynstat test specimens	Apr-25	
2010885	**DIN 53435**	☐	Bending test on dynstat test specimens	Apr-25	
2010977	**ISO 8256**	☐	Tensile-impact strength	Apr-25	
2010882	**ISO 6603-2**	☐	Instrumented impact test	Apr-25	
2010757	**ISO 6721-5**	☐	Dynamic-mechanical-Analysis (DMA)	Apr-25	
Plastics - mechanical properties (ASTM):					
2010886	**ASTM D638**	☐	Tensile test	Apr-25	
2010888	**ASTM D790**	☐	Flexural test	Apr-25	
2010006	**ASTM D256**	☐	Izod impact properties +23 °C	Apr-25	
2010883	**ASTM D3763**	☐	Instrumented impact test	Apr-25	
Specimen injection moulding (type 1A):					
2010785	**ISO 527-1,-2**	☐	Injection moulding of specimen (type 1A) and tensile test	Apr-25	
2010786	**ISO 178**	☐	Injection moulding of specimen (type 1A) and flexural test	Apr-25	
2010787	**ISO 179-1**	☐	Injection moulding of specimen (type 1A) and Charpy impact resistance	Apr-25	
Cutting of specimen:					
2010813	**ISO 527-1,-2**	☐	Cutting of specimen (type 1B) and tensile test	Apr-25	
2010814	**ISO 527-1,-2**	☐	Cutting of specimen (type 5A) and tensile test	Apr-25	
Plastics - polyamide 6 and 6.6:					
2010815	**ISO 527-1,-2**	☐	Tensile test polyamide 6 and 66	Apr-25	
2010816	**ISO 178**	☐	Flexural test polyamide 6 and 66	Apr-25	
2010817	**ISO 179-1**	☐	Charpy flexural impact test polyamide 6 and 66	Apr-25	
Plastics - Dimensions of test specimens:					
2010978	**freely selectable**	☐	Width and thickness of specimen (type 1A)	Apr-25	
Plastics - water content | water absorption:					
2010793	**ISO 15512**	☐	Water content (Karl-Fischer)	Apr-25	
2010865	**ISO 15512**	☐	Water content (Aquatrac®) CaH2-Method	Apr-25	
2010796	**ISO 62**	☐	Water absorption	Apr-25	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

Proficiency tests - Thermoplastics

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
			Plastics - density | hardness | ash content:		Login or register
2010769	**ISO 1183-1 and ASTM D792 (Apr.)**	☐	Density	Apr-25	
2010984	**ISO 1183-1 and ASTM D792 (Oct.)**	☐	Density	Oct-25	
2010741	**ISO 1172 and ISO 3451-1**	☐	Ash content	Apr-25	
2010651	**ASTM D5630**	☐	Ash content	Apr-25	
2010742	**ISO 868**	☐	Shore-D-Hardness	Apr-25	
2010811	**ISO 2039-1**	☐	Ball indentation hardness	Apr-25	
			Plastics - rheological properties:		
2010825	**ISO 1133-1 and ASTM D1238 (Mar.)**	☐	Melt flow and volume index (MFR-MVR)	Mar-25	
2010008	**ISO 1133-1 and ASTM D1238 (Oct.)**	☐	Melt flow and volume index (MFR-MVR)	Oct-25	
2010861	**ISO 1133**	☐	Melt flow - volume rate (high temperature above 300°C)	Mar-25	
2010213	**ISO 1133-2**	☐	MFR-MVR (moisture sensitive material)	Mar-25	
2010795	**ISO 307**	☐	Viscosity number (sulfuric acid)	Mar-25	
2010858	**ISO 307**	☐	Viscosity number (formic acid)	Mar-25	
2010859	**ISO 1628-5**	☐	Viscosity number of PBT	Mar-25	
2010788	**ISO 11443**	☐	Fluidity of plastics - capillary rheometer	Mar-25	
2010789	**ISO 6721-10**	☐	Complex shear viscosity (parallel-plate)	Mar-25	
			Plastics - thermal properties, Infrared spectroscopy:		
2010743	**ISO 11357-3 and ASTM D3418 (Mar.)**	☐	DSC-analysis - Melting temperature and enthalpy	Mar-25	
2010985	**ISO 11357-3 and ASTM D3418 (Oct.)**	☐	DSC-analysis - Melting temperature and enthalpy	Oct-25	
2010854	**ISO 11357-2 and ASTM D3418**	☐	DSC-analysis - Glass transition temperature	Mar-25	
2010855	**ISO 11357-6 and ASTM D3895**	☐	DSC-analysis - Oxidation Induction time (OIT)	Mar-25	
2010297	**ISO 11357-4**	☐	DSC-Analysis - specific heat capacity	Mar-25	
2010745	**ISO 11358**	☐	Thermogravimetry (TGA) - filler content	Mar-25	
2010653	**ASTM E1131**	☐	Thermogravimetry (TGA) - filler content	Mar-25	
2010303	**ISO 6964**	☐	Carbon black content calcination and pyrolysis	Mar-25	
2010758	**ISO 11359**	☐	Coefficient of linear thermal expansion (CTLE)	Apr-25	
2010775	**ISO 306**	☐	Vicat softening point	Apr-25	
2010790	**ISO 75**	☐	Temperature of deflection under load	Apr-25	
2010818	**freely selectable**	☐	Quantitative Infrared spectroscopy	Mar-25	
			Recommendation from category "consumer goods":		
2010210	**freely selectable**	☐	Identification of plastic granulates	Mar-25	
2010167	**freely selectable**	☐	Identification PA types (e.g. PA6, PA 11)	Mar-25	
			Plastics - emissions:		
2010851	**VDA 270 - PV 3900**	☐	Odourtest	Mar-25	
2010555	**GMW 3205**	☐	Odour test	Mar-25	
2010869	**VDA 275 - PV 3925**	☐	Formaldehyde emission	Mar-25	
2010843	**VDA 277 - PV 3341**	☐	Total carbon emission	Mar-25	
2010870	**VDA 278**	☐	Thermal desorption analysis	Mar-25	
2010797	**DIN 75201**	☐	Fogging behaviour (method A)	Mar-25	
2010557	**GMW 3235**	☐	Fogging behaviour (method A)	Mar-25	
2010798	**DIN 75201 - PV 3015**	☐	Fogging behaviour (method B)	Mar-25	
2010559	**GMW 3235**	☐	Fogging behaviour (method B)	Mar-25	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

Proficiency tests - Thermoplastics

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
			Plastics - surfaces:		Login or register
2010722	**ISO 2813**	☐	Specular gloss	Mar-25	
2010649	**ASTM D523**	☐	Specular Gloss	Mar-25	
2010821	**DIN 53236-A**	☐	Colour Measurement 8°	Mar-25	
2010771	**DIN 53236-B**	☐	Colour Measurement 45°	Mar-25	
2011106	**VW 50195**	☐	Automotive Paint Finish - Colorimetric Evaluation	May-25	
2010822	**PV 3952**	☐	Scratch resistance	Mar-25	
2010823	**ISO 1518-1**	☐	Erichsen Hardness test pencil	Mar-25	
2011049	**ISO 22557**	☐	Scratch test spring-loaded pen	Mar-25	
2010871	**ISO 19403-2**	☐	Contact angle and surface energy	Mar-25	
2010893	**ISO 9352**	☐	Abrasion by abrasive wheels (Taber)	Mar-25	
2010981	**PV 3987**	☐	Micro scratch resistance	Jan-25	
2010699	**PV 3974**	☐	Mar Resistance of Surfaces	Apr-25	
2010719	**PV 3991**	☐	Skin abrasion test	Apr-25	
2010693	**PV 3966**	☐	Stress Whitening Properties (Ball Drop Test)	Apr-25	
2010717	**PV 3989**	☐	Ball Drop Test	Apr-25	
2011205	**ISO 8296, ASTM D2578**	☐	Wetting tension (red test ink)	May-25	
2011206	**ISO 8296, ASTM D2578**	☐	Wetting tension (green test ink)	May-25	
			Plastics - paintwork:		
2010972	**ISO 2409**	☐	Cross-cutting test	May-25	
2010539	**PV 3964**	☐	Cream resistance	May-25	
2010849	**DBL 5425**	☐	Multiple stone impact test	May-25	
2010221	**ISO 20567-1**	☐	Multiple stone impact test	May-25	
2011042	**SAE J400**	☐	Chip Resistance	May-25	
2010845	**DBL 5425**	☐	Steam jet test	May-25	
2010703	**TL 211 (ISO 16925-C)**	☐	Steam-jet test	May-25	
2011045	**IEC 60068-2-70**	☐	Abrasion caused by rubbing	May-25	
2010217	**PV 1200**	☐	Environmental Cycle Test	May-25	
2010541	**ISO 2808 (6A, Var. 1)**	☐	Film thickness - Cross sectioning by grinding	May-25	
2010641	**ISO 2808 (6A, Var. 2)**	☐	Film thickness - Cross sectioning by cutting	May-25	
2010543	**DBL 5425 (A.1.17)**	☐	Wash scratch resistance (Amtec-Kistler)	May-25	
2010545	**DBL 5425 (A.1.17)**	☐	Wipe scratch resistance (Crockmeter)	May-25	
2010721	**PV 3.3.3**	☐	Scratch Resistance of Clear Coats	May-25	
			Plastics - electroplating:		
2010239	**ISO 1456 (ISO 1463, ISO 2177)**	☐	Coating thickness (Cu-Ni-Cr)	May-25	
2010241	**ISO 16866, ASTM B764**	☐	Coating thicknesses, potential difference (nickel layers)	May-25	
2010243	**DIN 53100**	☐	Number of micropores - microcracks	May-25	
2010219	**DBL 1665**	☐	Corrosion testing CASS (48 h)	May-25	
2010661	**PV 1058**	☐	Micro-crack pattern	May-25	
2010663	**PV 1063**	☐	Micropore Density	May-25	
2010665	**PV 1065**	☐	Potential Differences, Layer Thicknesses of Nickel	Sep-25	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

Proficiency tests - Thermoplastics | Metals

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
					Login or register
Plastics - Light fastness / Exposure tests					
	Evaluation: Color change with grey scale and instrumental				
2010799	**ISO 105-B06**	☐	Light fastness	Apr-25	[P]
2010667	**PV 1303**	☐	Xenon Arc Light Aging	Mar-25	
2010867	**ISO 4892-2**	☐	Light fastness Xenon Arc light (cycle 1)	Apr-25	[P]
2010866	**ASTM G155**	☐	Light fastness Xenon Arc light (cycle 1)	Apr-25	[P]
2010868	**ISO 4892-3 and ASTM G154**	☐	Exposure to laboratory light (UV lamps)	Apr-25	[P]
2010128	**PV 3929**	☐	Weathering (Dry, Hot) - Kalahari test	Apr-25	
2010130	**PV 3930**	☐	Weathering (Humid, Hot) - Florida test	Apr-25	
2010846	**DIN 75220 D-IN1-T, VDA 230-219**	☐	Sunlight simulation	Apr-25	[P]
			[P] = return of the tested samples is required		
	Evaluation: Change of mechanical properties				
2010016	**ISO 4892-2**	☐	Light fastness cycle 1 (mechanics)	Apr-25	
Assessing - Change in colour / Staining / Blistering:					
2010026	**ISO 105 A02, A03**	☐	Visual evaluation with grey scale	Apr-25	
2010919	**ISO 105 A04, A05**	☐	Instrumental assessment	Apr-25	
2010701	**ISO 4628-2**	☐	Degree of blistering (quantity and size)	Apr-25	
2011046	**ISO 4628-3**	☐	Degree of rusting	Apr-25	
Metals - corrosion testing:					
2010820	**ISO 9227**	☐	Corrosion testing (NSS)	Apr-25	
2010018	**ISO 9227**	☐	Corrosion testing (CASS)	Apr-25	
2010561	**ISO 9227**	☐	Corrosion testing (AASS)	Apr-25	
2010020	**ASTM B117**	☐	Salt Spray test	Apr-25	
2010022	**GMW 14872**	☐	Exterior Cyclic Corrosion	Apr-25	
2010520	**DBL 7381.10 (KWT 1 steel)**	☐	Corrosion cycle test	May-25	
2010921	**DBL 7381.20 (CCT 2 steel, galvanized)**	☐	Corrosion cycle test	May-25	
2011043	**PV 1210**	☐	Corrosion Test	May-25	
2011044	**ISO 11997-1 (cycle A)**	☐	Corrosion Test	May-25	
2011047	**ISO 22479**	☐	Saturated atmosphere SO2 (Kesternich)	May-25	
Aluminum - corrosion testing:					
2010850	**DBL 7381.50**	☐	Aluminum corrosion (Filiform and CASS)	Jun-25	
Metals - paintwork:					
2010024	**ISO 6270-2**	☐	Condensation atmosphere constant humidity (CH)	Mar-25	
2010295	**ISO 2360**	☐	Coating thickness Amplitude-sensitive eddy-current method	May-25	
2010615	**ISO 2178**	☐	Coating thickness - Magnetic method	May-25	
2010927	**DBL 7381.30**	☐	Technical-mechanical tests	Oct-25	
Metals - X-ray fluorescence analysis (XRF)					
2010171	**freely selectable**	☐	Determination of elements by X-ray fluorescence analysis (XRF), e.g. nickel, copper, zinc, lead	Jul-25	
2010371	**ISO 3497**	☐	Coating thickness - X-ray spectrometric method	Mar-25	
Metals - surfaces Technical Cleanliness of components					
2011172	**VDA 19.1, ISO 16232**	☐	Cleanliness (gravimetric)	May-25	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

Proficiency tests - Thermoplastics | Pipes

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
					Login or register
Burning behaviour / Fire hazard / Electrical properties:					
2010819	**FMVSS 302 and DIN 75200**	☐	Plastics - burning rate	Mar-25	
2010862	**UL 94 HB and IEC 60695-11-10**	☐	Burning rate	Mar-25	
2010863	**UL 94 V and IEC 60695-11-10**	☐	Burning rate	Mar-25	
2010655	**TL 1010**	☐	Burning behavior	Mar-25	
2010659	**TL 1011**	☐	Flammability	Mar-25	
2010547	**IEC 62631-3-2, VDE 0307-3-2**	☐	Surface resistance	May-25	
2010549	**IEC 62631-3-1, VDE 0307-3-1**	☐	Volume resistivity	May-25	
2010864	**IEC 60695-2-13**	☐	Glow wire ignitability temperature (GWIT)	Mar-25	
2010979	**IEC 60112**	☐	CTI – Tracking	Mar-25	
Plastic pipes / pipe materials (PE)					
2010792	**ISO 1167-1 -2**	☐	Resistance to internal pressure	Mar-25	
2010890	**ISO 17454**	☐	Adhesion of multilayer pipes	Mar-25	
2010891	**ISO 9969**	☐	Thermoplastics pipes - ring stiffness	Mar-25	
2010980	**freely selectable**	☐	Wall thickness measurement of plastic pipes	Mar-25	
2010004	**ISO 16770**	☐	Full-notch creep test (FNCT)	Apr-25	
2010118	**ISO 18488**	☐	Strain Hardening Modulus	Apr-25	
2010120	**ISO 18489**	☐	Crack growth - cracked round bar (CRB)	Apr-25	
2010529	**ISO 10147**	☐	Degree of crosslinking of PE-X	Apr-25	
Plastic films					
2010777	**ISO 527-3**	☐	Tensile test on plastic films	Mar-25	
2010970	**ISO 7765-1**	☐	Impact resistance – free-falling dart	Mar-25	
2010878	**ISO 6383-1**	☐	Tear resistance - Trouser tear method	Mar-25	
2010838	**ISO 6383-2, ASTM D1922**	☐	Tear resistance - Elemdorf method	Mar-25	
2010779	**ISO 4593**	☐	Film thickness	Mar-25	
2010780	**ISO 8295**	☐	Coefficients of friction	Mar-25	
2010879	**ISO 11339**	☐	T-Peel test	Mar-25	**Migration testing:**
2010880	**DIN 55529**	☐	Sealed-seam strength	Mar-25	Proficiency Tests for overall and specific migration can be found in the category consumer goods or in our online catalogue
2010847	**ISO 15106-3**	☐	Water vapour transmission rate	Mar-25	
2010844	**ISO 15105-2**	☐	Gas transmission rate	Mar-25	
2010518	**ISO 15106-2**	☐	Water vapour transmission rate (IR sensor)	Mar-25	
2010781	**ISO 14782**	☐	Transparency - Haze	Mar-25	
2010012	**DIN 55543-5**	☐	Films - Adhesion strength	Mar-25	
2010312	**freely selectable**	☐	Identification of multi layer films	Mar-25	
2010115	**freely selectable**	☐	Identification of mono layer films	Sep-25	
2011205	**ISO 8296, ASTM D2578**	☐	Wetting tension (red test ink)	May-25	
2011237	**EN 14477**	☐	Puncture resistance	Mar-25	
2011238	**freely selectable**	☐	Multi layer film - layer thickness microtome cut	Mar-25	
2011239	**ASTM F88, EN 868-5 Appendix D**	☐	Plastic film construction - Sealed-seam strength	Mar-25	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

Proficiency tests - Rubber and TPE | Geosynthetics

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
					Login or register
Rubber and TPE:					
2010727	**ISO 2781**	☐	Density of rubber	May-25	
2010728	**ISO 37**	☐	Tensile properties (specimen S2)	May-25	
2010729	**ISO 37**	☐	Tensile properties (specimen S3A)	May-25	
2011033	**VDI 2019**	☐	Adhesion of thermoplastic elastomers (TPE)	May-25	
2010894	**ASTM D412**	☐	Tensile properties	May-25	
2010897	**ISO 34-1**	☐	Tear strength - trouser test piece	May-25	
2010761	**ISO 34-1**	☐	Tear strength - Angle test piece (without nick)	May-25	
2010760	**ISO 34-1**	☐	Tear strength - Angle test piece (with nick)	May-25	
2010895	**ISO 815**	☐	Compression set	May-25	
2010900	**ISO 815-2**	☐	Compression set at lower temperature	May-25	
2010896	**ISO 2285**	☐	Tension set	May-25	
2010731	**ISO 48-4 and ISO 868**	☐	Shore-A-Hardness	May-25	
2010898	**ASTM D2240**	☐	Shore-A-Hardness	May-25	
2010748	**ISO 48-2**	☐	Hardness IRHD, M	May-25	
2010899	**ISO 48-2**	☐	Hardness IRHD, N	May-25	
2010267	**ISO 48-4**	☐	Hardness Shore D	May-25	
2010762	**ISO 4662**	☐	Rebound resilience	May-25	
2010763	**ISO 4649**	☐	Abrasion resistance	May-25	
2010746	**ISO 11357-2 (rubber)**	☐	DSC-Analysis - glass transition temperature	May-25	
2010875	**ISO 1407**	☐	Solvent extract	May-25	
2010764	**ISO 289-1**	☐	Mooney viscosity	May-25	
2010749	**ISO 1817**	☐	Increase in mass	May-25	
2010750	**ISO 11358**	☐	Thermogravimetry - black carbon content (TGA)	May-25	
2010269	**ISO 1431-1**	☐	Resistance to ozone cracking	May-25	
2010508	**ISO 188**	☐	Accelerated ageing and heat resistance	May-25	
2010671	**PV 3305**	☐	Ozone Resistance and Permanent Deformation	May-25	
2010673	**PV 3307**	☐	Plastic and Elastic Deformability	May-25	
2010675	**PV 3330**	☐	O-Rings - Compression Set	May-25	
2010697	**PV 3973**	☐	O-Rings - Tensile test	May-25	
2010677	**PV 3366**	☐	Wear Characteristics of Flocking	May-25	
2010715	**PV 3988 (4.1)**	☐	Anti-Friction Coating - Coating thickness	Sep-25	
Geosynthetics (geomembrane):					
2010901	**ISO 527-1,-3**	☐	Tensile test geosynthetics	Mar-25	
2010902	**ASTM D6693**	☐	Tensile Properties of PE - PP Geomenbranes	Mar-25	
2010903	**ASTM D1004**	☐	Tear Resistance (Graves Tear)	Mar-25	
2010904	**ISO 12236**	☐	Static Puncture Test (CBR-Test)	Mar-25	
2010906	**ISO 9863-1**	☐	Thickness at specified pressures	Mar-25	
2010909	**EN1107-2**	☐	Dimensional stability	Mar-25	
2010759	**ISO 11358**	☐	Carbon black content (TGA)	Apr-25	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

Proficiency tests - Foams | Composites | Paper

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
					Login or register
Foams (ISO / DBL / ASTM):					
2010848	**ISO 845**	☐	Cellular plastics - Apparent density	Apr-25	
2010829	**ISO 1798**	☐	Cellular plastics - Tensile test	Apr-25	
2010034	**ISO 8067**	☐	Cellular plastics - Tear strenght (method B)	Apr-25	
2010730	**ISO 1856**	☐	Cellular plastics - Compression set	Apr-25	
2010036	**ISO 3385**	☐	Cellular plastics - Fatigue	Apr-25	
2010831	**ISO 3386-1, DBL 5452**	☐	Cellular plastics - Compression	Apr-25	
2010038	**ISO 2439**	☐	Cellular plastics - Hardness	Apr-25	
2010874	**FMVSS 302 and DBL 5307**	☐	Cellular plastics - Burning rate	Apr-25	
2010040	**ASTM D3574 B1**	☐	Cellular plastics - Indentation Force	Apr-25	
2010042	**ASTM D3574 C**	☐	Cellular plastics - Compression Force	Apr-25	
2010044	**ASTM D3574 D**	☐	Cellular plastics - Compression Set	Apr-25	
2010046	**ASTM D3574 E**	☐	Cellular plastics - Tensile Test	Apr-25	
2010048	**ASTM D3574 F**	☐	Cellular plastics - Tear Resistance	Apr-25	
2010050	**ASTM D3574 I3**	☐	Cellular plastics - Fatigue	Apr-25	
2010052	**ASTM D3574 J**	☐	Cellular plastics - Steam Autoclave Aging	Apr-25	
2010054	**ASTM D3574 K**	☐	Cellular plastics - Dry Heat Aging	Apr-25	
2010152	**ASTM D3574 L**	☐	Cellular plastics - Wet Heat Aging	Apr-25	
2010412	**ASTM D3574 N**	☐	Cellular plastics - Hysteresis Loss	Apr-25	
Composites - Fibre-reinforced plastics:					
2010971	**ASTM D2583, EN 59**	☐	Barcol hardness	May-25	
2010060	**EN 2564**	☐	Fibre-, resin- and void contents	May-25	
2010726	**ISO 14125**	☐	Flexural properties	May-25	
2010724	**ISO 14126**	☐	Compressive properties	May-25	
2010725	**ISO 14129**	☐	45° tension test method	May-25	
2010772	**ISO 14130**	☐	Apparent interlaminar shear strength	May-25	
2010723	**ISO 527-1,-4**	☐	Tensile properties	May-25	
2010768	**ISO 527-1,-5**	☐	Tensile properties	May-25	
2010522	**ASTM D5379**	☐	Shear Properties (V-Notched Beam)	May-25	
2011048	**ASTM D7078**	☐	Rail Shear Method	May-25	
2010524	**ISO 13003**	☐	Fatigue properties (cyclic loading conditions)	May-25	
2010062	**ISO 2555**	☐	Resins - apparent viscosity	May-25	
2010068	**ISO 3219**	☐	Resins - viscosity	May-25	
Cured-in-place pipes (CIPP):					
2010537	**ISO 11296-4**	☐	CIPP - Short-term flexural properties	May-25	
Paper | Board:					
2011024	**ISO 2528**	☐	Sheet materials - Water vapour transmission rate	Oct-25	
2011025	**ISO 535**	☐	Paper and board - Water absorptiveness (Cobb)	Oct-25	
2011026	**ISO 5636-3**	☐	Paper and board - Air permeance (Bendtsen)	Oct-25	
2011027	**ISO 5636-5**	☐	Paper and board - Air permeance (Gurley)	Oct-25	
2011028	**ISO 536**	☐	Paper and board - Grammage	Oct-25	
2011029	**ISO 534**	☐	Paper and board - Thickness, density, specific volume	Oct-25	
2011030	**ISO 12625-3**	☐	Tissue products - Thickness	Oct-25	
2011031	**ISO 12625-8**	☐	Tissue products - Water-absorption capacity	Oct-25	
2011032	**ISO 12625-6**	☐	Tissue products - Grammage	Oct-25	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

Proficiency tests - Textiles

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
					Login or register
Textiles - Fabric properties:					
2010733	**EN 12127 ISO 3801**	☐	Mass per unit area of fibre materials	May-25	
2010983	**freely selectable**	☐	Construction of fabric	May-25	
2010732	**ISO 9073-2**	☐	Thickness of nonwovens	May-25	
2010070	**ISO 9073-4**	☐	Tear resistance nonwovens	May-25	
2010635	**ISO 9073-3**	☐	Tensile properties of nonwovens	May-25	
2010734	**ISO 13934-1**	☐	Tensile properties - strip method	May-25	
2010837	**ISO 13934-2**	☐	Tensile properties - grab method	May-25	
2010778	**ISO 13937-1**	☐	Tear properties - Elmendorf method	May-25	
2010800	**ISO 13937-2**	☐	Tear properties - trouser shaped specimen	May-25	
2010801	**ISO 13937-3**	☐	Tear properties - wing shaped specimen	May-25	
2010802	**ISO 12947-2**	☐	Abrasion resistance - Martindale	May-25	
2010637	**ISO 12947-3**	☐	Abrasion resistance Martindale (mass loss)	May-25	
2010803	**ISO 12945-1**	☐	Pilling properties - Pilling box	May-25	
2010804	**ISO 12945-2**	☐	Pilling properties - Martindale	May-25	
2010841	**ISO 13936-1**	☐	Slippage resistance yarn - Fixed seam opening	May-25	
2011103	**ISO 13936-2**	☐	Slippage resistance yarns - Fixed load	May-25	
2010072	**ISO 13935-1**	☐	Maximum force seam	May-25	
2011177	**ISO 13935-2**	☐	Maximum force seam - grab method	May-25	
2010842	**ISO 13938-2**	☐	Bursting strength and Bursting distension	May-25	
2010751	**ISO 3071**	☐	pH value of textiles	May-25	
2010973	**DIN 54278-1**	☐	Textiles - materials soluble	May-25	
2011178	**ISO 16322-2**	☐	Textiles - spirality after laundering	May-25	
2011179	**ISO 15487**	☐	Textiles - Self-flatness behavior	May-25	
2011228	**ISO 20932-1**	☐	Elasticity of fabrics (strip test)	May-25	
Textiles - fabric and functional properties (Automotive):					
2010669	**PV 2034**	☐	Floating Roller Peel Test	Jan-25	
2010679	**PV 3906**	☐	Abrasion Behavior	May-25	
2010681	**PV 3908**	☐	Wear Resistance	May-25	
2010683	**PV 3909**	☐	Static and Permanent Elongation	May-25	
2011105	**PV 3949**	☐	Upholstery Cover Materials - Snag Test	May-25	
2010689	**PV 3955**	☐	Trim Cover Material - Seam Slippage Resistance	Jan-25	
2010691	**PV 3961**	☐	Trim Cover Material - Hook Fastener Test	Jan-25	
Textiles - Functional properties					
2010805	**freely selectable**	☐	Colour measurement diffuse 8°-geometry	May-25	
2010839	**ISO 811**	☐	Hydrostatic pressure test	May-25	
2011175	**UN, ECE R118 appendix 8**	☐	Vertical burning rate	May-25	
2011176	**ISO 6941**	☐	Textiles - Burning behaviour vertically oriented specimens	May-25	
2010840	**ISO 5077 - ISO 6330**	☐	Dimensional change in washing	May-25	
2010807	**ISO 15797**	☐	Industrial washing and colour change	May-25	
2010832	**ISO 9237**	☐	Permeability to air	May-25	
2010808	**FMVSS 302 and DIN 75200**	☐	Textiles - burning rate	May-25	
2010995	**ISO 11092**	☐	Thermal and water vapour resistance	May-25	
2010237	**ASTM E96 (BW)**	☐	Water Vapor Transmission	May-25	
2010074	**AATCC 22**	☐	Spray test - resistance to surface wetting ISO 4920	May-25	
2010319	**ISO 9865**	☐	Bundesmann Rain-shower test	May-25	
2010092	**ISO 14419**	☐	Oil repellency	May-25	
2010514	**EN 13758-1**	☐	Solar UV protective properties	May-25	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

Proficiency tests - Textiles

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
Textiles - Colour fastness:					Login or register
2010809	**ISO 105-B02**	☐	Colour fastness to light - Xenon arc	Oct-25	
2010810	**ISO 105-B04**	☐	Colour fastness to light - Xenon arc	Oct-25	
2010510	**ISO 105-B07**	☐	Colour fastness to light - artificial perspiration	Oct-25	
2010833	**ISO 105-C06 (C2S)**	☐	Colour fastness to washing 60°	Oct-25	
2010735	**ISO 105-X12**	☐	Colour fastness to rubbing - Crockmeter	Oct-25	
2010834	**ISO 105-C08**	☐	Colour Fastness to washing 60°C	Oct-25	
2010629	**ISO 105-C10**	☐	Colour fastness to washing with soap (and soda)	Oct-25	
2010835	**ISO 105-D01**	☐	Colour Fastness to dry cleaning	Oct-25	
2010512	**ISO 105-D02**	☐	Colour fastness to rubbing - organic solvents	Oct-25	
2010752	**ISO 105-E01**	☐	Colour Fastness to water	Oct-25	
2010223	**ISO 105-E02**	☐	Colour Fastness to sea water	Oct-25	
2010229	**ISO 105-E03**	☐	Colour Fastness to chlorinated water	Oct-25	
2010736	**ISO 105-E04**	☐	Colour Fastness to perspiration	Oct-25	
2010633	**ISO 105-N01**	☐	Colour fastness to bleaching - hypochlorite	Oct-25	
2010917	**ISO 105-N02**	☐	Colour fastness to bleaching - peroxide	Oct-25	
2010231	**ISO 105-X05**	☐	Colour fastness to organic solvents	Oct-25	
2010235	**ISO 105-X11**	☐	Colour fastness to hot pressing	Oct-25	

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

Assessing - Change in colour / Staining:					
2010026	**ISO 105 A02, A03**	☐	Visual evaluation with grey scale	Apr-25	
2010919	**ISO 105 A04, A05**	☐	Instrumental assessment	Apr-25	
Textilien - Bestimmung einer Fasermischung:					
2010974	**freely selectable**	☐	Qualitative determination of a fibre blend	May-25	
2010737	**ISO 1833-11**	☐	Fibre blend - Proportion of cotton fibres	May-25	
2010776	**ISO 1833-12**	☐	Fibre blend - Proportion of acrylic fibres	May-25	
2010738	**ISO 1833-4**	☐	Fibre blend - Proportion of protein fibres	May-25	
2010739	**ISO 1833-6**	☐	Fibre blend - Proportion of viscose fibres	May-25	
2010740	**ISO 1833-7**	☐	Fibre blend - Proportion of polyamide fibres	May-25	
Coated / laminated fabrics:					
2010990	**ISO 32100**	☐	Coated fabrics – flex resistance (flexometer)	May-25	
2010991	**ISO 1421**	☐	Coated fabrics – tensile properties	May-25	
2011050	**ISO 2411**	☐	Coated fabrics - adhesion	May-25	
2010631	**ISO 4674-1**	☐	Coated fabrics - tear resistance (B)	May-25	
2010150	**ISO 2286-3**	☐	Coated fabrics - Thickness	May-25	
2010086	**ISO 7854-A**	☐	Resistance to damage by flexing (De Mattia)	May-25	
2010088	**ISO 7854-C**	☐	Resistance to damage by flexing (crumple - flex)	May-25	
2010090	**ISO 5470-2**	☐	Abrasion resistance (Martindale)	May-25	
Individual fibres:					
2010975	**ISO 1973**	☐	Linear density	May-25	
2010976	**ISO 5079**	☐	Textile fibres – tensile test	May-25	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

Proficiency tests - Leather | PSA

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
					Login or register
Leather:					
2010770	**FMVSS 302 and DBL 5307**	☐	Leather - burning rate	Apr-25	
2010028	**ISO 3376**	☐	Leather tensile test	Apr-25	
2010030	**ISO 3377-1**	☐	Leather - tear load - single edge tear	Apr-25	
2010032	**ISO 3377-2**	☐	Leather - tear load - double edge tear	Apr-25	
2010066	**ISO 2589**	☐	Leather - Thickness	Apr-25	
2010713	**ISO 11640**	☐	Colour fastness to cycles of rubbing	Apr-25	
2010709	**ISO 17186**	☐	Surface coating thickness	Apr-25	
2010516	**VDA 270**	☐	Odour test (variant D4 and D5)	Apr-25	
2010645	**ISO 4045**	☐	Leather - pH value and difference figure	Apr-25	
2010643	**ISO 11641**	☐	Leather - colour fastness to perspiration	Apr-25	
2010647	**ISO 11642**	☐	Leather - colour fastness to water	Apr-25	
2011173	**ISO 14268**	☐	Leather - water vapour permeability	Apr-25	
2010695	**PV 3968**	☐	Soiling Behavior	Apr-25	
Proficiency Tests for chemical leather testing can be found in the category "consumer goods" or the online catalogue: **e.g. metal content, preservatives, formaldehyde, chlorophenols, volatile substances, organotin compounds**					
Protective clothing (general):					
2010094	**ISO 13996**	☐	Puncture resistance	May-25	
2010096	**EN 1149-1**	☐	Surface resistivity	May-25	
2010098	**EN 1149-2**	☐	Vertical resistance	May-25	
2010100	**EN 1149-3**	☐	Charge decay	May-25	
2010102	**ISO 15025**	☐	Limited flame spread	May-25	
2010104	**ISO 9185**	☐	Resistance to molten metal splash	May-25	
2011182	**ISO 6530**	☐	Resistance of materials to penetration by liquids	May-25	
2011183	**ISO 17493**	☐	Convective heat resistance (hot air circulating oven)	May-25	
2011229	**ISO 6942 (method B)**	☐	Source of radiant heat - protective effect	May-25	
2011230	**ISO 9151**	☐	Heat transmission on exposure to flame	May-25	
Protective gloves:					
2010639	**EN 388**	☐	Protective gloves against mechanical risks	May-25	
2011036	**ISO 13997**	☐	Protective gloves - resistance to cutting	May-25	
2011180	**ISO 21420**	☐	Protective gloves - length and finger dexterity	May-25	
Filtering half masks:					
2010551	**EN 149+A1, EN 13274-7**	☐	Filtering half masks - penetration	May-25	
2010321	**EN 14683**	☐	Test method Medical face masks	May-25	
2010621	**EN 14683 (ISO 22609)**	☐	Medical face masks - Splash Resistance	May-25	
High visibility clothing:					
2010106	**ISO 20471 (5.1)**	☐	Color measurement (background material)	May-25	
2010108	**ISO 20471 (6.1)**	☐	Retroreflection (retroreflective material)	May-25	
Microplastics from textile sources:					
2010625	**AATCC TM 212, ISO 4484-1**	☐	Microplastics - mass loss textile	May-25	
2011174	**ISO 4484-2**	☐	Qual. and quant. evaluation of microplastics	May-25	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

Proficiency tests - Environmental testing / EMC

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
					Login or register

In cooperation with: 4TIERS **and** EMC PT

Environmental testing

2011035	**IEC 60068-2-6, -2-64**	☐	Vibration	Mar-25
2011107	**IEC 60068-2-6, -2-64 (round 2)**	☐	Vibration	Jan-25
2011196	**IEC 60068-2-6, -2-64 (round 3)**	☐	Vibration	Jan-25
2011034	**IEC 60068-2-27**	☐	Shock	May-25
2011194	**IEC 60068-2-14**	☐	Change of temperature - Test N	Mar-25
2011195	**IEC 60068-2-30, -2-38**	☐	Damp heat and temperature-humidity cyclic	Mar-25
2011250	**IEC 60068-2-30, -2-38 (round 2)**	☐	Damp heat and temperature-humidity cyclic	May-25

Electromagnetic compatibility (EMC)

Part I - Radiated emissions / disturbance:

2011065	**RTCA DO-160 (sec. 21)**	☐	Emission of Radio Frequency Energy 2 MHz - 6 GHz	Apr-25
2011066	**MIL-STD461 (RE102) - AECTP 500 (NRE02) - VG95373-12 (SA04G)**	☐	Radiated Emissions – Electric Field 10 kHz - 18 GHz	Aug-25
2011072	**CISPR 25**	☐	Radiated emissions assemblies - Anechoic chamber 150 kHz - 6 GHz	Aug-25
2011074	**UN ECE R10 (6.5, 6.6)**	☐	Broadband and narrowband electromagnetic interference (ESA) - 30 MHz - 1 GHz (BB and NB)	Aug-25
2010931	**CISPR 16-2-3 - EN 55016-2-3 - EN 55011**	☐	Radiated disturbance 30 MHz - 6 GHz Antenna distance 3 m, (EN 55011 up to 1 GHz)	Apr-25

Part II - Radiated susceptibility:

2011077	**RTCA DO-160 (sec. 20)**	☐	Radio Frequency Susceptibility (Radiated) 100 MHz - 8 GHz | test level: Cat R	Apr-25
2011078	**MIL-STD461 (RS103) - AECTP 500 (NRS02) - VG95373-13 (SF03G)**	☐	Radiated susceptibility - electric field 10 kHz - 40 GHz | test level: 50 V/m	Aug-25
2011084	**ISO 11452-2**	☐	Electrical disturbances - Absorber-lined shielded enclosure 200 MHz - 6 GHz | Limit value / test level: bis 100 V/m	Aug-25
2011085	**UN ECE R10 (6.8)**	☐	Immunity (ESA) - electromagnetic radiation - free field 20 MHz - 2000 MHz | Limit value / test level: 30 V/m	Aug-25
2010933	**IEC 61000-4-3**	☐	Radiated, radio-frequency, electromagn. field immunity 80 MHz - 6 GHz | Limit value / test level: 10 V/m, 3 V/m	Apr-25

Part III - Conducted emissions / disturbance:

2011054	**CISPR 16-2-1 - EN 55016-2-1 - EN 55011**	☐	Conducted disturbance 150 kHz - 30 MHz	May-25
2011240	**CISPR 25**	☐	Conducted disturbances 150 kHz - 108 MHz	Oct-25
2011241	**RTCA DO-160 (sec. 21)**	☐	Conducted RF emissions 10 kHz - 200 MHz	Oct-25
2011242	**MIL-STD461 (CE101)**	☐	Conducted emissions, audio frequency currents, power leads 30 Hz to 10 kHz	Oct-25
2011243	**MIL-STD461 (CE102)**	☐	Conducted emissions, audio frequency currents, power leads 10 kHz to 10 MHz	Oct-25
2011244	**ISO 7637-2 - UN ECE R10 (6.7)**	☐	Emission of transient conducted disturbances on supply lines slow (ms) and fast (ns und µs) pulses	Oct-25

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

Proficiency tests - Environmental testing / EMC

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
					Login or register
Electromagnetic compatibility (EMC):					
Part IV - Conducted susceptibility:					
2011055	**IEC 61000-4-2**	☐	Electrostatic discharge immunity	May-25	
2011057	**IEC 61000-4-4**	☐	Electrical fast transient immunity	May-25	
2011058	**IEC 61000-4-5**	☐	Surge immunity	May-25	
2011059	**IEC 61000-4-6**	☐	Immunity - conducted disturbances (radio-frequency fields)	May-25	
2011060	**IEC 61000-4-8**	☐	Power frequency magnetic field immunity	May-25	
2011061	**IEC 61000-4-9**	☐	Impulse magnetic field immunity	May-25	
2011063	**IEC 61000-4-11**	☐	Voltage dips, short interruptions, voltage variations immunity	May-25	
2011245	**ISO 11452-4 - UN ECE R10 (6.8)**	☐	Immunity (ESA) - bulk current injection (BCI) 10 kHz - 400 MHz	Oct-25	
2011246	**RTCA DO-160 (sec. 20)**	☐	Conducted Susceptibility (BCI) 10 kHz - 400 MHz	Oct-25	
2011247	**MIL-STD461 (CS114)**	☐	Conducted susceptibility, bulk cable injection (BCI) 4 kHz - 200 MHz	Oct-25	
2011248	**ISO 7637-2 - UN ECE R10 (6.9)**	☐	Transient disturbances conducted along supply lines Pulse 1, 2a, 2b, 3a, 3b und 4	Oct-25	
2011249	**ISO 10605 (8.3)**	☐	Electrostatic discharge (powered-up direct discharges)	May-25	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

Proficiency tests - Building materials

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
					Login or register
Hardened concrete:					
2010288	**EN 12390-7 und -3**	☐	Hardened concrete - Density and Compressive strength	Dec-25	
2010290	**EN 12390-5**	☐	Flexural strength of test specimens	Dec-25	
2010589	**EN 12390-6**	☐	Tensile splitting strength	Dec-25	
2010591	**EN 12390-8**	☐	Depth of penetration of water under pressure	Dec-25	
2010205	**EN 14629**	☐	Chloride content in hardened concrete	Nov-25	
Fresh concrete: [sample preparation by the participant]					
2010593	**EN 12350-4,-5,-6,-7**	☐	Fresh concrete	Dec-25	
Cement:					
2010284	**EN 196-1**	☐	Compressive and flexural strength	Nov-25	
2010266	**EN 196-2**	☐	Chloride content of cement	Nov-25	
2010268	**EN 196-2**	☐	Loss of ignition of cement	Nov-25	
2010569	**EN 196-2**	☐	Total sulphate content	Nov-25	
2011236	**EN 196-2**	☐	Residue insoluble (hydrochloric acid - sodium carbonate)	Nov-25	
2010595	**EN 196-3**	☐	Setting times and soundness	Nov-25	
2010597	**EN 196-6**	☐	Fineness	Nov-25	
2011184	**EN 196-10**	☐	Cement - water-soluble chromium (VI)	Nov-25	
Mortar for masonry: [sample preparation by the participant]					
2010599	**EN 1015-1**	☐	Particle size distribution (by sieve analysis)	Dec-25	
2010601	**EN 1015-3,-6,-7**	☐	Fresh mortar	Dec-25	
2010276	**EN 1015-10**	☐	Dry bulk density of hardened mortar	Dec-25	
2010298	**EN 1015-11**	☐	Flexural and compressive strength	Dec-25	
2010300	**EN 1015-12**	☐	Adhesive strength of hardened mortars	Dec-25	
Masonry units:					
2010603	**EN 772-1**	☐	Compressive strength	Nov-25	
2010605	**EN 772-21**	☐	Water absorption by cold water absorption	Nov-25	
Mineral building materials:					
2010571	**ISO 12570**	☐	Moisture content	Nov-25	
2010573	**ISO 12571**	☐	Hygroscopic sorption properties	Nov-25	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

Proficiency tests - Building materials

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Standard		Proficiency testing type [A]	Period	To view pricing information:
					Login or register
Aggregates:					
2010611	**EN 933-1**	☐	Particle size distribution - Sieving method	Dec-25	
2010613	**EN 933-4**	☐	Particle shape - Shape index	Dec-25	
2011185	**EN 933-9**	☐	Fines - Methylene blue test	Nov-25	
2011186	**EN 933-10**	☐	Fines - Grading of filler aggregates	Nov-25	
2010575	**EN 1097-3**	☐	Loose bulk density and voids	Nov-25	
2010579	**EN 1097-6**	☐	Particle density and water absorption	Nov-25	
2010581	**EN 1744-1**	☐	Water-soluble chloride salts - Volhard method	Nov-25	
2011187	**EN 1744-1**	☐	Water-soluble chloride salts - potentiometry	Nov-25	
2010583	**EN 1744-1**	☐	Total sulfur content, Acid soluble sulfates	Nov-25	
2011234	**EN 1367-1**	☐	Resistance to freezing and thawing	Nov-25	
2011235	**EN 933-7**	☐	Shell content	Nov-25	
Bituminous mixtures & Bitumen:					
2011191	**EN 12697-1**	☐	Bituminous mixtures - Soluble binder content	Dec-25	
2011192	**EN 1426**	☐	Bitumen - needle penetration	Dec-25	
2011193	**EN 1427**	☐	Bitumen - softening point	Dec-25	
2011197	**EN 12697-6**	☐	Bulk density of bituminous specimens (Procedure B)	Dec-25	
Thermal insulating material:					
2010587	**ISO 29470**	☐	Thermal insulating products - Apparent density	Dec-25	
2010607	**EN 1607**	☐	Tensile strength perpendicular to faces	Dec-25	
2011040	**EN 12089**	☐	Bending behaviour	Dec-25	
2010609	**ISO 29469**	☐	Compression behaviour	Dec-25	
2010286	**EN 29052-1**	☐	Dynamic stiffness	Dec-25	
2010280	**EN 12667**	☐	Thermal resistance	Dec-25	
2011188	**ISO 16535**	☐	Long term water absorption by immersion (2A)	Dec-25	
2011189	**EN 1604**	☐	Thermal insulating products - dimensional stability	Dec-25	
2011190	**EN 12086**	☐	Thermal insulating products - water vapour transmission	Dec-25	
2011231	**ISO 16546**	☐	Freeze-thaw resistance	Dec-25	
2011232	**EN 12430**	☐	Behaviour under point load	Dec-25	
2011233	**EN 1605**	☐	Deformation under compressive load and temperature conditions	Dec-25	
Other building material:					
2010282	**ISO 15148**	☐	Water absorption coefficient by partial immersion	Nov-25	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

Proficiency tests - immunological, molecular biological & microbiological

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Art. no.	Proficiency testing type [A]		Parameters [*]	risk group	Period	To view pricing information:
	Other building materials					Login or register
2010682	**moulds building materials (surface contact sample)**	☐	moulds [cfu/sample]	**risk group 2**	Apr-25	
2010684	**moulds building materials (material sample)**	☐	moulds qualitative [cfu/g]	**risk group 2**	Apr-25	
	Plastics - surfaces					
2010623	**Antibacterial activity plastics - ISO 22196**	☐	antibacterial activity S.aureus [log10 reduction], antibacterial activity E.coli [log10 reduction]		May-25	

[A] = For accredited and non-accredited status please see our Catalogue/ Shop (ODIN)

[*] = Specified parameters correspond to the status of the catalogue publication. The binding parameters for the respective proficiency testing can be viewed in our online portal (ODIN).

registration form proficiency testing

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Additional samples are required for the following tests:

Quantity	Art. No. / Proficiency testing type

For questions and suggestions do not hesitate to contact the DRRR-team!

+49(0)831/960 878-0

info@DRRR.de

For proficiency testing schemes labelled with "risk group 2, or 3" we need a permission or an exemption for working with pathogenic microorganisms of your lab if existing in your country (e.g. "infection protection law (IfSG)" in Germany).**

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. Cancelation fees apply when cancelling a registration. If you want to have a permanent-registration please tick the box on the right side.

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

Order by e-mail: **info@DRRR.de**

Hereby we confirm obligatorily the participation in the above mentioned test(s) and the order for the additional sample sets.

	DRRR-customer number
	company
	additional line
	contact person
	street
	post code / city
	country
	email
	VAT-ID (EU)

Date:

Deutsches Referenzbüro
für Ringversuche und Referenzmaterialien GmbH
Reinhartser Straße 31 | 87437 Kempten
Tel.: +49 (0)8 31/960 878-0 | Fax: +49 (0)8 31/960 878-99
www.DRRR.de | info@DRRR.de

reference material

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

Importance

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

Description reference material

Benefit of using certified 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.

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 materials.

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 of reference material

ODIN - proficiency testing online

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

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

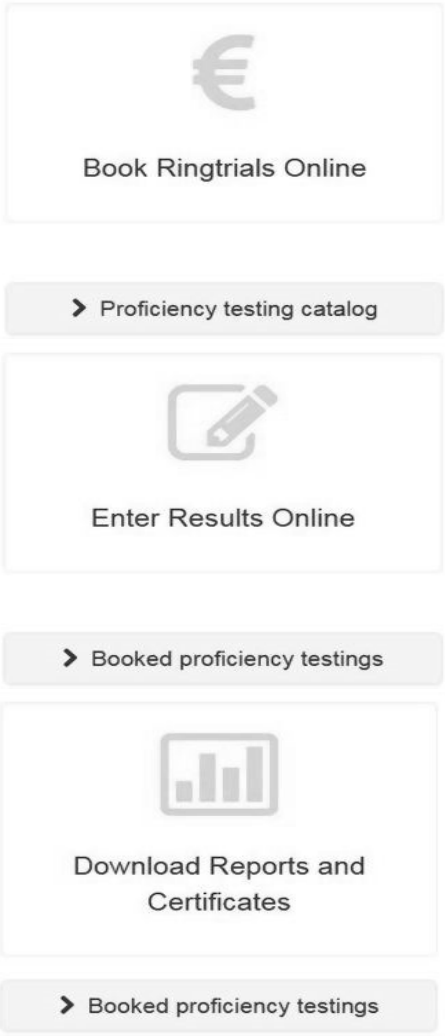
Secure payment with IRIS (Internet Remuneration Information Service).

• 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.



Proficiency testing organisation

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

• 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.

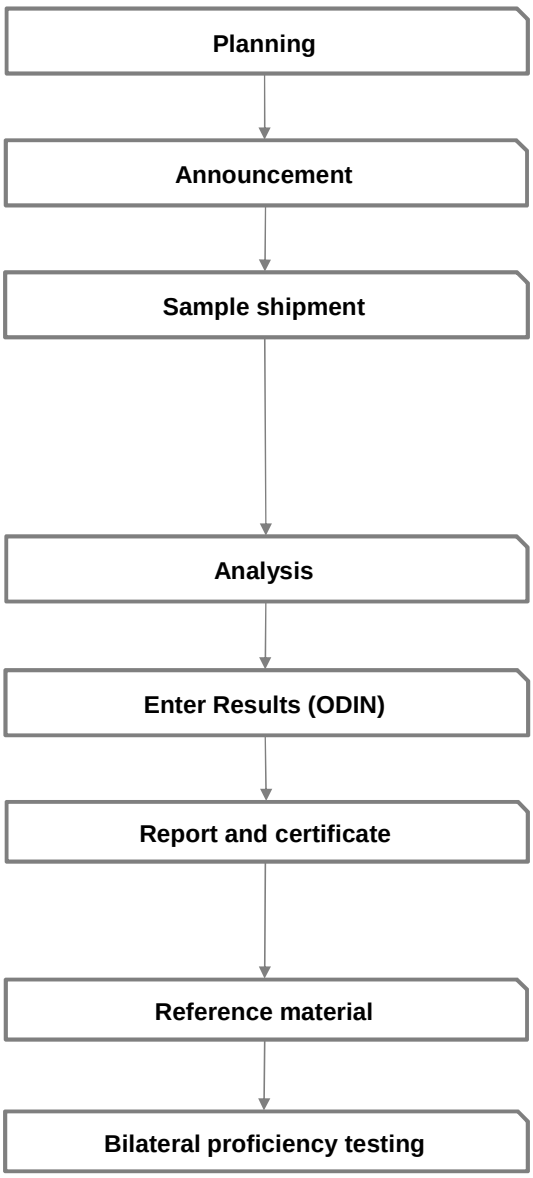
• After receiving the samples you will have a period of 4 weeks for analysing

• 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)



Benefits of proficiency testing

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

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 analzye 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

Statistical methods

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

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 paramters:

- 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)

Selection of statistical method with the chi²-fit test

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

Additional extended method evaluation (in case data are available)

z'-score > 2: What to do?

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

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.

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.

quality management / quality assurance

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

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.

seminars / training / consulting

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

IR-Seminar

The IR-seminar explains how to analyze different kind of food by IR spectroscopy. Furthermore specific peculiarties for the IR calibartion of selected food will be discussed. The specific peculiarties 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 excericise calibration data sets will be testes for suitability and critical data sets will be identifed.

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.

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

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.

Statistics seminar for beginners

This seminar presents the Binomial-, Poisson- and Normal distribution and the application of them. Problem cases and the classis 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 users

This seminar presents the Shapiro-Wilk-Test, qui²-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.

Sales terms and delivery conditions

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

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!

General terms and conditions

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

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:

Cancelation notification period:	Permanent registration (D)
	single (one-time) registration €
up to 3 months before the proficiency testing	no costs (D)
	50,00 € €
3 months before the proficiency testing start	50,00 € (D)
	half proficiency testing price €
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.

General terms and conditions

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

§ 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.

General terms and conditions

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien

§ 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