

Consumer goods and Packaging

product catalogue 2023 / 2024



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chemical-physical

organoleptic

In the fields:

Consumer goods /
packaging in food
contact such as:

- Films
- Paper and board
- Glass / canning /
cans

Contamination from
packaging

Consumer goods in
body contact such as:

- Textiles
- Cosmetics
- Tattoo ink
- Jewellery

Other consumer goods
such as:

- Printing inks
- Toys
- Cleaning agent
- Leather
- E-cigarettes

Importance

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

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 derivative 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 use 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.

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.

Identification

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 their corresponding reference values will be sent on request. We reserve our right to send you always the latest materials.

Description reference material

Profit with our high quality standards for your lab work

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

Availability and order request of reference material

Please use the order from on page 46.

films

Art. No.	material description	parameter *	additional information	packaging unit	prices
1151001	overall migration of plastic film (one-sided contact)	ethanol 10 %, ethanol 20 %, ethanol 50 %, acetic acid 3 %, distilled water, vegetable oil	-	1 film á app. 40 x 60 cm	100 €
1151002	overall migration of plastic film (total immersion)	ethanol 10 %, ethanol 20 %, ethanol 50 %, acetic acid 3 %, distilled water, vegetable oil	-	1 film á app. 40 x 60 cm	100 €
1151044	overall migration of plastic film (article filling)	ethanol 10 %, ethanol 20 %, ethanol 50 %, acetic acid 3 %	-	310 ml	100 €
1151045	overall migration of plastic film(fatty foodstuffs) ("substitute tests")	ISO-octane, ethanol 95 %	-	1 film á app. 40 x 60 cm	100 €
1151046	overall migration of plastic film at high temperatures	olive oil	-	on request	100 €
1151056	overall migration from plastic using MPPO as a simulant	overall migration by using Tenax (MPPO) as a simulant	-	app. 20 x 30 cm	100 €
1151116	overall migration (pouch)	ethanol 10%, 20%, 50%, acetic acid 3% and vegetable oil	-	on request	100 €
1151167	overall migration (fatty test food) (substitute test, one-sided contact)	Food simulants: ISO octane, 95% ethanol	-	on request	100 €
1151003	specific migration of plastic film: caprolactam	ethanol 10 %, ethanol 20 %, ethanol 50 %, acetic acid 3 %, distilled water, vegetable oil	-	1 film á app. 40 x 30 cm	100 €
1151004	specific migration of plastic film: therephthalic acid	ethanol 10 %, ethanol 50 %, acetic acid 3 %, distilled water, vegetable oil	-	1 film á app. 34 x 15 cm	100 €
1151005	specific migration of plastic film: acrylonitrile	ethanol 10 %, acetic acid 3 %, distilled water, olive oil	-	app. 103 g granulate	100 €
1151054	specific migration of plastic film: 1-Octen	ethanol 50 %, ethanol 95 %, vegetable oil	-	app. 90 g granulate	100 €
1151058	specific migration of plastic film: melamine	ethanol 10%, acetic acid 3%, distilled water, vegetable oil	-	4 x 5 g granules	100 €
1151059	specific migration of plastic film: vinyl acetate	ethanol 10%, acetic acid 3%, distilled water, olive oil	-	103 g	100 €
1151105	specific migration (acrylonitrile trimers)	acrylonitrile trimers	-	on request	100 €
1151130	specific migration (primary aromatic amines) 1	CAS 95-53-4 (o-toluidine), CAS 92-87-5 (benzidine), CAS 62-53-3 (aniline) and CAS 91-94-1 (3,3'-dichlorobenzidine) in simulant distilled water, 3% acetic acid, CAS 101-77-9 (4,4'-Methylenedianiline)	-	on request	100 €
1151131	specific migration (primary aromatic amines) 2	CAS 90-04-0 (2-methoxyaniline), CAS 106-47-8 (4-chloroaniline), CAS 91-59-8 (2-naphthylamine) and CAS 119-93-7 (3,3'-dimethylbenzidine) in simulant 10% ethanol and 15% ethanol	-	on request	100 €

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films

Art. No.	material description	parameter *	additional information	packaging unit	prices
1151158	specific migration metals part 1	specific migration of antimony, arsenic, cadmium in simulant acetic acid 3%, water	-	on request	100 €
1151159	specific migration metals part 2	specific migration of total chromium, lead, iron in simulant acetic acid 3%, water	-	on request	100 €
1151006	identification of polymer material (mono-layer plastic film)	qualitative identification (e.g. PE, PP, ...)	-	set consists of 3 foils á app.10 x 10	100 €
1151007	identification of plastic granules	qualitative identification	-	30 ml	100 €
1151008	identification of polymer material (multi-layer plastic film)	qualitative identification of single polymer layers in a multi-layer plastic foil (e.g. PE, PP, ...)	-	set consists of 3 foils á app.20 x 30 cm	100 €
1151079	identification of different PA types	e.g. PA6, PA6.6, PA11, PA12	-	app. 15 g	100 €
1151163	Identification of microplastic	qualitative determination of microplastics in water	-	on request	100 €
1151164	Elemental determination in plastics by X-ray fluorescence analysis (XRF)	Determination of various elements, e.g. nickel, copper, zinc, lead	-	on request	100 €
1151077	testing of: ethylene glycol in food simulant	ethanol 10%; 20%; 50%, acetic acid 3%, distilled water, vegetable oil	-	100 ml	100 €
1151078	testing of: di-ethylene glycol in food simulant	ethanol 10%; 20%; 50%, acetic acid 3%, distilled water, vegetable oil	-	100 ml	100 €
1151048	testing of: Bisphenol A in food simulant	distilled water, acetic acid 3 %, ethanol 10 %	-	100 ml	100 €
1151049	testing of: formaldehyde in food simulant	distilled water, acetic acid 3 %, ethanol 10 %, vegetable oil	-	100 ml	100 €
1151060	testing of: acrylamide	ethanol 10%, acetic acid 3%, distilled water, olive oil	-	100 g	100 €
1151047	determination of overall migration potential by rapid extraction	ISO-octane, ethanol 95 %	-	on request	100 €
1151009	determination of overall migration on synthetic samples	ethanol 10 %, ethanol 20 %, ethanol 50 %, acetic acid 3 %, distilled water	-	app. 20 x 30 cm	100 €
1151050	determination of the phthalate content in consumer goods	DBP, BBP, DEHP, DNOP, DINP, DIDP, DEP, DMP	-	3 g	339 €

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films

Art. No.	material description	parameter *	additional information	packaging unit	prices
1151051	determination of vinylchloride monomer in synthetic sample	vinyl chloride monomer	-	on request	100 €
1151061	acetaldehyde in mineral water	acetaldehyde	-	75 ml	100 €
1151062	determination of bisphenol A content in plastics	bisphenol A monomer	-	5 g	100 €
1151063	determination of 1,3 butadiene content in plastics	1,3 butadiene monomer	-	4 g	100 €
1151114	styrol oligomers in synthetic samples	CAS 1001-75-0 (1,3-Diphenylpropane), CAS 16606-47-6 (2,4-Diphenyl-1-butene), CAS 20071-09-4 (trans-1,2-Diphenylcyclobutane), CAS 18964-53-9 (2,4,6-Triphenyl-1-hexene) and CAS 26681-79-8 (1-Phenyl-4-(1-phenylethyl)-1,2,3,4-tetrahydronaphthalene)	-	on request	100 €
1151132	determination of the PAH content in plastics	CAS 91-20-3 (naphthalene), CAS 120-12-7 (anthracene), CAS 56-55-3 (benzo(a)anthracene), CAS 218-01-9 (chrysene), CAS 205-99-2 (benzo(b)fluoranthene), CAS 207-08-9 (benzo(k)fluoranthene), CAS 205-82-3 (benzo(j)fluoranthene), CAS 192-97-2 (benzo(e)pyrene), CAS 50-70-3 (benzo(a)pyrene), CAS 53-70-3 (dibenz(ah)anthracene) (at least 5 of the parameters quantitative)	-	on request	100 €
1151173	Volatile fractions in silicone	gravimetric determination of the volatile fractions	-	on request	100 €

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paper / board

Art. No.	material description	parameter *	additional information	packaging unit	prices
1151015	mineral oil in cardboard	MOSH C10-C16, MOSH C16-C20, MOSH C20-C25, MOSH C25-C35, MOAH C10-C16, MOAH C16-C25, MOAH C25-C35	-	1 cardboard á app. 30 x 20 cm	100 €
1151016	mineral oil in low-fat and starch-rich foodstuff	MOSH C10-C16, MOSH C16-C20, MOSH C20-C25, MOSH C25-C35, MOSH C35-C40, MOSH C40-C50, MOAH C10-C16, MOAH C16-C25, MOAH C25-C35, MOAH C35-C50	-	50 g	100 €
1151053	mineral oil in cocoa butter and chocolate	MOSH C10-C16, MOSH C16-C20, MOSH C20-C25, MOSH C25-C35, MOSH C35-C40, MOSH C40-C50, MOAH C10-C16, MOAH C16-C25, MOAH C25-C35, MOAH C35-C50	-	100 g	100 €
1151104	mineral oil in cheese and milk powder	MOSH C10-C16, MOSH C16-C20, MOSH C20-C25, MOSH C25-C35, MOSH C35-C40, MOSH C40-C50, MOAH C10-C16, MOAH C16-C25, MOAH C25-C35, MOAH C35-C50	-	on request	100 €
1151017	mineral oil in edible fat and edible oil	MOSH C10-C16, MOSH C16-C20, MOSH C20-C25, MOSH C25-C35, MOSH C35-C40, MOSH C40-C50, MOAH C10-C16, MOAH C16-C25, MOAH C25-C35, MOAH C35-C50	-	15 g	100 €
1151052	migration of mineral oil from cardboard	Migration of mineral oil in food simulating matrix: Tenax	-	1 cardboard á app. 30 x 20	100 €
1151161	Mineral oil in jute bags	MOSH C10-C16, MOSH C16-C20, MOSH C20-C25, MOSH C25-C35, MOSH C35-C40, MOSH C40-C50, MOAH C10-C16, MOAH C16-C25, MOAH C25-C35, MOAH C35-C50	-	on request	100 €
1151055	migration from paper and board using MPPO as a simulant	overall migration by using Tenax (MPPO) as a simulant	-	1 cardboard á app. 30 x 20 cm	100 €
1151064	pH value in aqueous extract (cold and hot)	pH value	-	on request	100 €
1151065	formaldehyde in aqueous extract	formaldehyde	-	ca. 10 g	100 €
1151066	determination of glyoxal content	glyoxal	-	ca. 10 g	100 €
1151067	colour fastness of dyed paper and board	distilled water, acetic acid 3%, olive oil, alkali salt solution	-	1 cardboard á app. 30 x 20	100 €
1151068	colour fastness of fluorescent whitened paper and board	distilled water, acetic acid 3%, olive oil, alkali salt solution	-	1 cardboard á app. 30 x 20	100 €
1151149	overall migration of paper and cardboard	overall migration in simulant ethanol 95%	-	on request	100 €
1151150	specific migration (Benzophenone)	specific migration of benzophenone in simulant ethanol 95%	-	on request	100 €

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paper / board

Art. No.	material description	parameter *	additional information	packaging unit	prices
1151151	gravimetric determination of constituents of paper - cardboard	dry content, residue on ignition, ash	-	on request	100 €
1151152	determination of the DIPN content in paper - cardboard (EN 14719)	DIPN (Diisopropylnaphthalin)	-	on request	100 €
1151153	determination of 1,3-dichloro-2-propanol and 3-monochloro-1,2-propanediol	1,3-dichloro-2-propanol, 3-monochloro-1,2-propanediol in water extract	-	on request	100 €
1151154	PCB in paper - cardboard	PCB 52, PCB 101, PCB 138	-	on request	100 €
1151155	cadmium and lead in aqueous extract (EN 12498)	cadmium, lead	-	on request	100 €
1151156	determination of acid soluble manganese (ISO 1830)	manganese	-	on request	100 €
1151157	bisphenol S in thermal paper	Bisphenol S	-	on request	100 €
1151171	Determination of total chlorine and organically bound chlorine (ISO 11480)	total chlorine, organically bound chlorine	-	on request	100 €

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textiles

Art. No.	material description	parameter *	additional information	packaging unit	prices
1151018	extractable heavy metals in textiles	cadmium, lead, nickel, mercury, chromium (quantitative)	-	4 g	100 €
1151019	free formaldehyde in textiles	free formaldehyde (quantitative)	-	1 g	100 €
1151020	flame retardants in textiles	tributyl phosphate (CAS No 126-73-8), o-triskresyl phosphate (CAS No 78-30-8), tris(2-chloroethyl)-phosphate (CAS No 115-96-8), tris(2-chloro-1-methylethyl)-phosphate (CAS No 13674-84-5)	-	1 g	100 €
1151021	azo dyes in textiles	qualitative determination of aromatic amines derived from azo dyes acc. EN 14362-1	-	2 g	100 €
1151002	aniline in textiles	CAS 62-53-3 (aniline)	-	on request	100 €
1151003	2,4-xylidine and 2,6-xylidine in textiles	CAS 95-68-1 (2,4-xylidine), CAS 87-62-7 (2,6-xylidine)	-	on request	100 €
1151004	alkylphenols and alkylphenol ethoxylates in textiles	CAS 68412-54-5 (nonylphenol ethoxylate), CAS 9002-93-1 (octylphenol ethoxylate), CAS 84852-15-3 4-(nonylphenol isomer)	-	on request	100 €
1151005	chlorophenols in textiles	Tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and CAS 87-86-5 (pentachlorophenol)	-	on request	100 €
1151006	organotin compounds in textiles	CAS 1118-46-3 (monobutyltin trichloride), CAS 3091-25-6 (trichlorooctylstannane), CAS 683-18-1 (dibutyltin dichloride), CAS 3542-36-7 (diocetyltin dichloride), CAS 1461-22-9 (tributyltin chloride), CAS 639-58-7 (triphenyltin chloride), CAS 3091-32-5 (tricyclohexyltin chloride), CAS 1461-25-2 (tetra-n-butyltin)	-	on request	100 €
1151007	perfluorinated compounds in textiles	CAS 1763-23-1 (perfluorooctane sulfonic acid)	-	on request	100 €
1151008	pesticides in textiles	Chlorinated and phosphorus containing pesticides	-	on request	100 €
1151009	determination of the total metal content in textiles	e.g. tin, cadmium and mercury	-	on request	100 €
1151090	phthalates in textiles	CAS 28553-12-0 (DINP), CAS 117-81-7 (DEHP), CAS 117-84-0 (DNOP), CAS 26761-40-0 (DIDP), CAS 85-68-7 (BBP), CAS 84-74-2 (DBP), CAS 84-69-5 (DIBP), CAS 131-18-0 (DPP), CAS 71888-89-6 (DIHP), CAS 117-82-8 (DMEP)	-	on request	100 €

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textiles

Art. No.	material description	parameter *	additional information	packaging unit	prices
1151091	PAH in textiles	CAS 91-20-3 (naphthalene), CAS 120-12-7 (anthracene), CAS 56-55-3 (benzo(a)anthracene), CAS 218-01-9 (chrysene), CAS 205-99-2 (benzo(b)fluoranthene), CAS 207-08-9 (benzo(k)fluoranthene), CAS 205-82-3 (benzo(j)fluoranthene), CAS 50-70-3 (benzo(e)pyren), CAS 50-70-3 (benzo(a)pyren), CAS 53-70-3 (dibenz(ah)anthracene) (minimum 5 of the parameters quantitative)	A PAH concentration in the samples of approximately 0,1-10 mg/kg per PAH is to be expected.	on request	100 €
1151143	determination of lead release with saliva simulant solution in textiles (EN 16711-3)	lead	-	on request	100 €
1151165	Elemental determination in textiles by X-ray fluorescence analysis (XRF)	Determination of various elements, e.g. nickel, copper, zinc, lead	-	on request	100 €
1151172	extractable dyestuffs in textiles (ISO 16373-2)	Detection of at least 3 extractable dyestuffs	-	on request	100 €
1151174	Chlorobenzenes and chlorotoluenes in textiles (EN 17137)	At least 4 different substances quantitatively	-	on request	100 €

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tattoo ink

Art. No.	material description	parameter *	additional information	packaging unit	prices
1151030	preservatives in tattoo ink	benzisothiazolinone (BIT)	-	app. 10 g	100 €
1151031	aromatic amins in tattoo ink	aniline, o-Anisidine, o-toluidine, 5-nitro-o-toluidine	-	app. 10 g	100 €
1151039	nickel in tattoo ink	tin, zinc, nickel, strontium, antimony, barium, cadmium, cobalt, lead (minimum 4 of the parameters quantitative)	-	2 g	100 €

jewellery

Art. No.	material description	parameter *	additional information	packaging unit	prices
1151043	jewellery (acc. to EN 1811)	testing for nickel	-	1 metal 54x85x1 mm	100 €
1151166	Lead and cadmium in jewelry	Lead, cadmium	-	on request	100 €

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Please use the order from on page 46.

cosmetics

Art. No.	material description	parameter *	additional information	packaging unit	prices
1151022	soap	AOX, EOX	-	on request	100 €
1151023	care products	methylparaben, ethylparaben, propylparaben, n-butylparaben, phenoxyethanol, benzoic acid, sorbic acid, methylisothiazolinone, isobutylparaben	-	50 g	100 €
1151024	shampoo, lotion	fat, density, pH value, dry residue, water content, urea	-	300 ml	100 €
1151025	cream, lotion	dexpanthenol, tocopherolacetat, retinolpalmitate	-	50 g	100 €
1151026	dental care	fluoride	-	50 ml	100 €
1151027	metals in cosmetics	aluminium, copper, zinc	-	15 ml	100 €
1151071	heavy metals in cosmetics	lead, arsenic, antimony, nickel, cobalt, zinc, cadmium	-	50 ml	100 €
1151028	quant. determination of UV filters	EHS, BMDM, EHT, PBSA, OC, titanium dioxide	-	25 g	100 €
1151029	PAH in decorative cosmetics	naphthalene, anthracene, benzo(a)anthracene, chrysene, benzo(b)fluoranthen, benzo(k)fluoranthen, benzo(j)fluoranthen, benzo(e)pyren, benzo(a)pyren, dibenz(ah)anthracene	A PAH concentration in the samples of approximately 0,5-50 mg/kg per PAH is to be expected.	5 g	100 €
1151037	tensides in cosmetics	Sodium Laureth Sulfate, Cocamidopropyl betaine (CAPB), Coco-glucoside	-	on request	100 €
1151038	mineral oil hydrocarbons in care products	MOSH C10 - C50, MOAH C10 - C50	-	10 g	100 €
1151069	anti dandruff substances	pirocton-olamine, zinc pyrithione	-	5 g	100 €
1151070	solvents	ethanol, isopropyl alcohol, acetone, glycol	-	50 ml	100 €
1151117	perfume, body spray	flash point	-	on request	100 €
1151128	self-tanner	dihydroxyacetone, formaldehyde	-	on request	100 €
1151129	determination of sunscreen UVA photoprotection in vitro (ISO 24443)	UVA photoprotection	-	on request	100 €

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printing inks

Art. No.	material description	parameter *	additional information	packaging unit	prices
1151010	migration of printing ink constituents quant. determination of monomers and initiators food simulating matrices: 50% ethanol, 95% ethanol type 1	CAS 94100-97-1: Di(trimethylolpropan)tetraacrylat (Di-TMPTA), CAS 57472-68-1: Dipropylene glycol diacrylate (DPGDA), CAS 119313-12-1: 1-Butanone,2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl)- CAS 84434-11-7: 2,4,6-trimethylbenzoylphenyl phosphinate	-	on request	113 €
1151011	migration of printing ink constituents quant. determination of monomers and initiators food simulating matrices: 50% ethanol, 95% ethanol type 2	CAS 42978-66-5: Tri(propylene glycol)diacrylate (TPGDA), CAS 15625-89-5: Tri(methylolpropan)triacrylate (TMPTA), CAS 272460-97-6: 1-Propanone,1-[4-[(4-benzoylphenyl)thio]phenyl]-2-methyl-2-[(4-methylphenyl)sulfonyl]-, CAS 162881-26-7: Bis(2,4,6-trimethylbenzoyl)-phenylphosphineoxide	-	on request	113 €
1151012	printing ink constituents in synthetic samples - monomers type 3	CAS 94100-97-1: Di(trimethylolpropan)tetraacrylat (Di-TMPTA), CAS 57472-68-1: Dipropylene glycol diacrylate (DPGDA), CAS 42978-66-5: Tri(propylene glycol)diacrylate (TPGDA), CAS 15625-89-5: Tri(methylolpropan)triacrylate (TMPTA)	-	50 ml	113 €
1151013	printing ink constituents in synthetic samples - initiators type 4	CAS 119344-86-4: 2-dimethylamino-2-(4-methyl-benzyl)-1-(4-morpholin-4-yl-phenyl)-butan-1-one CAS 84434-11-7: 2,4,6-trimethylbenzoylphenyl phosphinate CAS 272460-97-6: 1-Propanone,1-[4-[(4-benzoylphenyl)thio]phenyl]-2-methyl-2-[(4-methylphenyl)sulfonyl]-, CAS 162881-26-7: Bis(2,4,6-trimethylbenzoyl)-phenylphosphineoxide	-	10 g	113 €

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toys

Art. No.	material description	parameter *	additional information	packaging unit	prices
1151040	elements in toys; scrapped-off materials	tin, zinc, nickel, strontium, antimony, barium, cadmium, cobalt, lead	-	app. 5 g	100 €
1151041	colourfastness of articles for common use type 1	Test with artificial saliva	-	app. 10 x 10 cm	100 €
1151042	colourfastness of articles for common use type 2	Test with artificial saliva	-	app. 10 x 10 cm	100 €
1151057	toys on water basis	methylisothiazolinone (MI), benzisothiazolinone (BIT)	-	app. 10 g	100 €
1151106	finger color	N-Nitrosodiethanolamine (NDELA)	-	on request	100 €
1151107	toy material extract: dyes	dyes	-	on request	100 €
1151100	aqueous migrate: phenol	phenol	-	on request	100 €
1151109	aqueous migrate: bisphenol A	bisphenol A	-	on request	100 €
1151110	aqueous migrate: acrylamide	acrylamide	-	on request	100 €
1151111	wobble mass, slime (EN 71-3)	boron	-	on request	100 €
1151112	formaldehyde release (EN 717-3) (use of a model matrix)	formaldehyde (flask method)	-	on request	100 €
1151115	primary aromatic amines in finger paint and colorants	CAS 95-53-4 (o-Toluidine), CAS 90-04-0 (2-Methoxyaniline), CAS 106-47-8 (4-Chloraniline), CAS 91-59-8 (2-Naphthylamine), CAS 92-87-5 (Benzidine), CAS 62-53-3 (Aniline), CAS 119-93-7 (3,3'-Dimethylbenzidine), CAS 91-94-1 (3,3'-Dichlorbenzidine) and CAS 119-90-4 (3,3'-Dimethoxybenzidine)	-	on request	100 €
1151148	preservative in finger pain (EN 71-7)	sorbic acid, benzoic acid, 2-phenoxyethanol, PHB ester	-	on request	100 €
1151170	Lead and cadmium in children's toys (CPSC-CH-E1004-11, CPSC-CH-	Lead, cadmium	-	on request	100 €

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cleaning agent

Art. No.	material description	parameter *	additional information	packaging unit	prices
1151072	organic acids	citric acid, formic acid, amidosulfonic acid	-	on request	100 €
1151073	oxidizing agent	sodium hypochlorite, hydrogen peroxide, percarbonate	-	60 ml	100 €
1151074	reducing agent	sodium dithionite, sulphurous acid, oxalic acid	-	on request	100 €
1151075	acid / alkali cleaning agent	pH value, acid reserve, alkali reserve	-	50 ml	100 €
1151076	alcohol-based cleaner	ethanol	-	50 ml	100 €
1151145	hygienic rinsing agent - disinfectant	DDAC (didecyldimethylammonium chloride), BAC (benzalkonium chloride)	-	on request	100 €
1151146	denaturant	Bitrex (denatonium benzoate)	-	on request	100 €
1151147	disinfectant	formaldehyde, glutaraldehyde, triclosan	-	on request	100 €

metals

Art. No.	material description	parameter *	additional information	packaging unit	prices
1151000	determination of elements in metal by X-ray fluorescence analysis (XRF)	determination of various elements, e.g. nickel, copper, zinc, lead	-	on request	100 €
1151136	chemical analysis of refractory products by X-ray fluorescence (XRF) - Fused cast-bead method (ISO 12677)	Determination of various elements, e.g. nickel, copper, zinc, lead	-	on request	100 €

e-cigarettes

Art. No.	material description	parameter *	additional information	packaging unit	prices
1151001	liquids from e-cigarettes	glycerin, propylene glycol, nicotine	-	on request	100 €
1151138	liquid from CBD cigarettes	CBD, terpenes	-	on request	100 €

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leather

Art. No.	material description	parameter *	additional information	packaging unit	prices
1151093	identification of leather by microscopy	identification of leather (imitation leather and leather of various animal species)	-	on request	100 €
1151094	determination of the total metal content in leather (ISO 17072-2)	e.g. chromium, lead and cadmium	-	on request	100 €
1151095	determination of water soluble substances in leather	water-soluble substances, water-soluble inorganic substances	-	on request	100 €
1151096	determination of volatile substances in leather	Mass of volatile substances	-	on request	100 €
1151097	determination of preservatives in leather	CAS 21564-17-0 (TCMTB), CAS 59-50-7 (CMK), CAS 90-43-7 (OPP), CAS 26530-20-1 (OIT)	-	on request	100 €
1151098	Leather – formaldehyde content ISO 17226-1	CAS 50-00-0 (formaldehyde)	-	on request	100 €
1151099	determination of aromatic amines from azo dyes in leather	qualitative and quantitative detection of azo dyes over aromatic amines according to ISO 17234-1	-	on request	100 €
1151100	determination of 4-aminoazobenzene in leather	CAS 60-09-3 (4-aminoazobenzene) according to ISO 17234-2	-	on request	100 €
1151101	chlorophenols in leather	Tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and CAS 87-86-5 (pentachlorophenol)	-	on request	100 €
1151102	organotin compounds in leather	CAS 1118-46-3 (monobutyltin trichloride), CAS 3091-25-6 (trichlorooctylstannane), CAS 683-18-1 (dibutyltin dichloride), CAS 3542-36-7 (dioctyltin dichloride), CAS 1461-22-9 (tributyltin chloride), CAS 639-58-7 (triphenyltin chloride), CAS 3091-32-5 (tricyclohexyltin chloride), CAS 1461-25-2 (tetra-n-butyltin)	-	on request	100 €
1151103	alkylphenols and alkylphenol ethoxylates in leather	CAS 68412-54-5 (nonylphenol ethoxylate), CAS 9002-93-1 (octylphenol ethoxylate), CAS 84852-15-3 4-(nonylphenol isomer mixture), CAS 140-66-9 (4-tert-octylphenol)	-	on request	100 €
1151113	naphthalene in leather	CAS 91-20-3 (naphthalene)	-	on request	100 €
1151137	determination of extractable metals in leather (ISO 17072-1)	e.g. chrome, lead and cadmium	-	on request	100 €
1151168	Dimethyl fumarate (DMFU) in footwear materials (ISO 16186)	Dimethyl fumarate (DMFU)	-	on request	100 €
1151169	Dimethylformamide (DMF) in footwear materials (ISO 16189)	Dimethylformamide (DMF)	-	on request	100 €

* in individual cases it can happen that there is no reference value available for a listed parameter

Please use the order from on page 46.

kitchen utensils and dishes

Art. No.	material description	parameter *	additional information	packaging unit	prices
1151133	release of metals from enamel (ISO 4531)	Release of various metals in the simulant 3% acetic acid	-	on request	100 €
1151134	specific migration of lead and cadmium from ceramics (EN 1388-1)	Lead and cadmium in the simulant acetic acid (40 ml/l)	-	on request	100 €
1151135	specific migration of cobalt from ceramics	Cobalt in the simulants 4% acetic acid, 0,5% citric acid and 10% acetic acid	-	on request	100 €

adhesive

Art. No.	material description	parameter *	additional information	packaging unit	prices
1151139	preservatives in adhesive	Methylisothiazolinone (MIT), Chloromethylisothiazolinone (CIT), Benzisothiazolinone (BIT), Octylisothiazolinone (OIT), Phenoxyethanol	-	on request	100 €
1151140	formaldehyde in adhesive	Formaldehyde	-	on request	100 €
1151141	VOC in adhesive	VOC in the value range 0,01-0,1% (100-1000 mg/kg), e.g. 1-Butanol, Acetone, Benzene, Toluene, Styrene	-	on request	100 €
1151142	solvents in adhesive	e.g. ethanol, acetone, benzene, toluene, methyl acetate	-	on request	100 €
1151160	Migration of primary aromatic amines in adhesive	CAS 823-40-5 (2,6-Diamino-toluol), CAS 95-80-7 (2,4-Diamino-toluol), CAS 101-77-9 (4,4-Diamino-diphenylmethan), CAS 1208-52-2 (2,4-Diamino-diphenylmethan), CAS 6582-52-1 (2,2-Diamino-diphenylmethan) in the simulant 3% acetic acid	-	on request	100 €

rubber

Art. No.	material description	parameter *	additional information	packaging unit	prices
1151144	determination of the content of PAH in rubber	CAS 91-20-3 (naphthalene), CAS 120-12-7 (anthracene), CAS 56-55-3 (benzo(a)anthracene), CAS 218-01-9 (chrysene), CAS 205-99-2 (benzo(b)fluoranthene), CAS 207-08-9 (benzo(k)fluoranthene), CAS 205-82-3 (benzo(j)fluoranthene), CAS 192-97-2 (benzo(e)pyrene), CAS 50-70-3 (benzo(a)pyrene), CAS 53-70-3 (dibenz(ah)anthracene) (at least 5 of the parameters quantitative)	-	on request	100 €

* in individual cases it can happen that there is no reference value available for a listed parameter

Please use the order from on page 46.

films

Art. No.	material description	parameter *	additional information	packaging unit	prices
3351001	sensory of packaging acc. to DIN 10955	sample set (raw material + instruction) for the intensity testing	-	sample set for one panel	161 €

paper / board

Art. No.	material description	parameter *	additional information	packaging unit	prices
3351003	sensory of board and paper acc. to EN 1230	sample set (raw material + instruction) for the intensity testing	-	sample set for one panel	161 €
3351002	threshold value examination "off flavour"	sample set (raw material + instruction) for the threshold value determination	off-flavour caused by packaging	sample set for one assessor	100 €

* in individual cases it can happen that there is no reference value available for a listed parameter

Please use the order from on page 46.

	material description	description	additional information	packaging unit	price
	ADR-security certified DRRR-freezing packaging system RM-ADR VP 1	Our certified packagings fulfill the requirements of ADR especially of the dangerous goods directive GGVSE and GGVSee. These systems are also convenient for the shipping of pathogenic bacteria of risk group 2.	guaranteed temperature assurance: 24 hours	VP 1 app. 310 x 250 x 190 mm	16 €
	ADR-security certified DRRR-freezing packaging system RM-ADR VP 2	Our certified packagings fulfill the requirements of ADR especially of the dangerous goods directive GGVSE and GGVSee. These systems are also convenient for the shipping of pathogenic bacteria of risk group 2.	guaranteed temperature assurance: 48 hours	VP 2 app. 350 x 350 x 300 mm	26 €