



Below table contains all analytical methods for the hazardous substances listed in the CADS-RSL.

If applicable for the listed substances international and national standard procedures are used. Harmonized CADS-methods are used for all substances without a standardized procedure. The CADS-methods are published in separate documents and are available for download on the CADS homepage.

Any deviation from the standard method has to be listed in the test report.

The below mentioned material description may vary from the ones used in the CADS-RSL. Descriptions of the CADS-RSL have to be used for test plans and test reports.

Parameter	Material:	Method:	Annotation:
<b>Preparation of test samples</b>	leather, coated leather	EN ISO 4044:2017	Sample preparation is performed according to Chapter 6.3 Cutting. The samples are cut into small pieces with an edge length of 3 mm- 5 mm. To avoid deviations in results, instead of grinding, raw materials are cut, too.
<b>Forbidden aromatic amines</b>	natural textiles, materials from cellulose	EN ISO 14362-1:2017 + EN ISO 14362-3:2017	Two analyses have to be performed for blended fabrics and material mixtures of unknown composition. One test with direct reduction and one test with extraction of the fabric followed by reduction.
	synthetic textiles	EN ISO 14362-1:2017 + EN ISO 14362-3:2017	
	blended fabric (mixture of natural and synthetic fibres)	EN ISO 14362-1:2017 + EN ISO 14362-3:2017	
	leather, leather fibre, coated leather	ISO 17234-1:2015 + ISO 17234-2:2011	-
<b>Biozides</b>			
Dimethylfumarat	all materials	CEN ISO/TS 16186:2012; DIN SPEC 53280:2012	-
2-(Thiocyanomethylthio)-benzothiazole	leather, leather fibre, coated leather	ISO 13365:2011	-
4-Chloro-3-methylphenol			
2-Octylisothiazol-3(2H)-one			
2-Phenylphenol			
2-Phenylphenol	textiles, materials from cellulose	According to ISO 13365:2011 or CADS-KOH-method (1)	ISO 13365:2011 is a leather standard. Each laboratory has to check the suitability of the method for textiles.
Triclosan	leather, leather fibre, coated leather, textiles, materials from cellulose	According to ISO 13365:2011 or CADS-KOH-method (1)	Triclosan is not part of ISO 13365:2011. Each laboratory has to check the suitability of the method for the materials listed.
<b>Chlorinated phenols</b>	leather, leather fibre, coated leather, textiles, materials from cellulose, foams	ISO 17070:2015 or CADS-KOH-method (1)	Description of the harmonized method is published in a separate document

(1) CADS-KOH-method

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Parameter	Material:	Method:	Annotation:
<b>Disperse dyes - allergenic</b>	synthetic textiles	DIN 54231:2005	-
<b>Disperse dyes - carcinogenic</b>	synthetic textiles	DIN 54231:2005	-
<b>Disperse dyes - others</b>	synthetic textiles	DIN 54231:2005	-
<b>Heavy metals</b>			
Chromium VI, soluble after ageing	leather, leather fibre, coated leather	ISO 17075-1:2017 (Colorim.)+ ISO 17075-2:2017 (Chrom.)+ CADS-Aging-Methode (2)	Description of the harmonised ageing method is published in a separate document.
Cadmium + Lead (total amount)	coated leather	ISO 17072-2:2011 + ASTM E 1613-04:2012	microwave digestion of samples; total dissolution has to be checked. In case of incomplete digestion different digestion solutions have to be used.
	plastics, metal parts, foams	DIN EN 14602:2012 + ASTM E 1613-04:2012	
	coated textiles	DIN EN 16711-1:2016 + ASTM E 1613-04:2012	
Nickle release	metal parts with skin contact	EN 1811:2015	Screening of metal parts following CR 12471 might be used as an indication for exceedance of the limit. Materials with a positive result according to CR 12471 have to be checked with EN 1811 or EN 12472.
	coated metal parts with skin contact	EN 12472:2009	
Cadmium, soluble	leather, leather fibre, coated leather	ISO 17072-1:2011	-
Nickle, soluble			
Cobalt, soluble			
Lead, soluble			
Antimony, soluble	textiles, materials from cellulose	DIN EN 16711-02:2016	-
Mercury, soluble			
Chromium, soluble			
<b>Tinorganic compounds</b>	coated leather, leather fibre, synthetic textiles, plastics, foams, adhesives	CEN ISO TS 16179:2012; DIN SPEC 91179	-
<b>Other hazardous substances</b>			
short chained chlorinated paraffines (C10-C13)	leather, leather fibres, coated leathers, plastics, foams	leather: DIN EN ISO 18219:2016 plastics: CADS SCCP/MCCP-Method (3)	Description of the harmonised SCCP/MCCP-method is published in a separate document.
medium chained chlorinated paraffines (C14-C17)			

- (2) CADS-Aging-method
- (3) CADS-SCCP-MCCP-method

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Parameter	Material:	Method:	Annotation:
<b>Other hazardous substances (continuation)</b>			
Perfluoroctanesulfonate	leather, coated leather, leather fibre, synthetic textiles, natural fibres	CEN TS 15968:2010 DIN SPEC 1038	-
Perfluoroctanoic acid			
Ammonium Perfluoroctanoate			
2-Mercaptobenzothiazole (2-MBT)	Latex, rubber	CADS-2-MBT-Method (4)	Description of the harmonised 2-MBT-method is published in a seperate document
Formaldehyd	leather, coated leather, leather fibre	EN ISO 17226-01:2008	-
	synthetic textiles, natural textiles	EN ISO 14184-01:2014	
	wood	EN 717-3:2005	
1-Methyl-2-pyrrolidone	leather, coated leather leather fibre, adhesives	EN ISO 19070:2016	-
Dimethylformamide	coated leather, coated textiles	CEN ISO TS 16189:2013; DIN SPEC 52411	-
Formamide	EVA, foams	According to: CEN ISO TS 16189:2013; DIN SPEC 52411	Formamide is not part of the scope of CEN ISO TS 16189. Each laboratory has to check the suitability of the method for the materials.
Bis(2-methoxyethyl)ether	leather, coated leather, bonded leather, adhesives	Accrding to: CEN ISO TS 16189:2013; DIN SPEC 52411	BMEE is not part of the scope of CEN ISO TS 16189. Each laboratory has to check the suitability of the method for the materials.
Nitrosamines	Latex, rubber	According to DIN EN 71-12:2017 (method for elastomers)	-
pH-value	leather, bonded leather, coated leather	EN ISO 4045:2008	-
	synthetic textiles, natural textiles, coated textiles, materials from cellulose	EN ISO 3071:2006	
p-Phenylendiamine	synthetic textiles, natural textiles, coated textiles	CADS-PDA-Method (5)	Description of the harmonised PDA-method is published in a seperate document

(4) CADS-2-MBT-method

(5) CADS-PDA-method

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Parameter	Material:	Method:	Annotation:
<b>Other phenols</b>			
Nonylphenol	coated leather, plastics, foams, coated textiles	CADS-phthalate-method (6)	Description of the harmonised phthalate-method is published in a separate document.
Octylphenol			
Nonylphenol ethoxylates Octylphenol ethoxylates	leather, bonded leather, coated leather	DIN EN ISO 18218-1:2015	Quantification is performed according to DIN EN ISO 18254:2016
	textiles, coated textiles, materials from cellulose, adhesives	DIN EN ISO 18254:2016	-
<b>Phthalates</b>	coated leather, adhesives, plastics, foams, coated textiles	CADS-phthalate-method (6)	Description of the harmonised phthalate-method is published in a separate document.
<b>Polycyclic aromatic hydrocarbons</b>	coated leather, plastics, foams, coated textiles	AfPS GS 2014:01 PAK or ZEK 01.02-08	-
<b>Volatile organic compounds</b>	EVA	Headspace-GC-MS	conditions: 120 °C, 45 min;
<b>Chlorinated benzenes and toluenes</b>	synthetic textiles, coated textiles	DIN 54232:2010	-

(6) CADS-Phthalat-method

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