

Differences and similarities between criteria European Eco-label and Oeko-Tex Standard 100

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Note: Grey cells indicate that Oeko-Tex certification requires more or equal to the European Eco-label criteria.

1. Textile fibre criteria

		Eco-label	Öeko-tex I (baby)
1 Acrylic	The residual acrylonitrile content	< 1,5 (mg/kg) <i>Test</i>	
	The emissions to air of acrylonitrile, annual average	< 1 (g/kg) <i>Test and declaration</i>	
2 Cotton and other natural cellulosic seed fibres¹	Pesticides ²	< 0,5 ³ (ppm) <i>Test or Declaration⁴</i>	0.5 (ppm)
	Chlorinated benzenes		1,0 (ppm)
3 Elastane	Organotin compounds	Forbidden <i>Declaration</i>	TBT: < 0,5 (ppm) DBT: < 1,0 (ppm)
	The emissions to air of aromatic diisocyanates, annual average	5 (mg/kg) <i>Test and declaration</i>	
4 Flax and other bast fibres⁵	Obtained by water retting	Forbidden ⁶ <i>Test or declaration</i>	
5 Greasy wool and other keratin fibres⁷	α -, β -, δ -, and γ -hexachlorocyclohexane (lindane), aldrin, dieldrin, endrin, p,p'-DDT, p,p'-DDD, cypermethrin, deltamethrin, fenvalerate, cyhalothrin, flumethrin.	< 0,5 (ppm) <i>Test or declaration</i>	
	diazinon, propetamphos, chlofenvinphos, dichlorfenthion, chlorpyriphos, fenclorophos, diflubenzuron, triflumuron.	< 2 (ppm) <i>Test or declaration</i>	
	the COD for scouring effluent discharged to sewer	< 60 (g COD/kg greasy wool)	
	The COD for scouring effluent treated on site and discharged to surface waters	< 5 (g/kg) <i>Test</i>	
	The pH of the effluent discharged to surface waters	6 – 9 pH <i>Test</i>	
	the temperature of the effluent discharged to surface waters	40 (°C) <i>Test</i>	
6. Man-made cellulose fibres⁸	The level of AOX	< 250 (ppm) <i>test</i>	

1 including kapok

2 For both ecolabel and okotex it includes these substances: aldrin, captafol, chloorbenzilaat, chloordaan, chloordimeform, DDT, dieldrin, endrin, heptachloor, hexachloorbenzeen, hexachloorcyclohexaan (alle isomeren samen) 2,4,5-T, dinoseb en de zouten daarvan, monocrotofos, toxafeen, methamidofos, parathion.

3 For ecolabel it includes these substances: pentachloorfenol, methylparathion en fosfamidon.

4 For some exceptions this criteria doesn't count.

5 including hemp, jute, and ramie

6 Unless the waste water from the water retting is treated so as to reduce the COD or TOC by at least 75 % for hemp fibres and by at least 95 % for flax and the other bast fibres.

7 including wool from sheep, camel, alpaca, goat)

8 including viscose, lyocell, acetate, cupro, triacetate

For viscose fibres	the sulphur content of the emissions of sulphur compounds, annual average	< 120 (g/kg) (filament fibre) < 30 (g/kg) (staple fibre) <i>declaration and test</i>	
For viscose fibres	The emission to water of zinc	< 0,3 (g/kg) <i>declaration and test</i>	
For cupro fibres	The copper content of the effluent water leaving the site, annual average	< 0,1 (ppm) <i>declaration and test</i>	
7. Polyamide	The emissions to air of N ₂ O, annual average	< 10 (g/kg) (PA-6) < 50 (PA-6,6) <i>declaration and test</i>	
8. Polyester	The amount of antimony (ppm)	< 260 <i>declaration and test</i>	
	The emissions of VOCs during polymerisation, annual average ⁹	1,2 (g/kg)	0,5 (mg/m ³)
9. Polypropylene	Lead-based pigments	Forbidden <i>declaration</i>	

2. Processes and chemicals criteria

		Ecolabel	Öeko-tex I (baby)
10. Auxiliaries and finishing agents for fibres and yarns	The content of PAH ¹⁰ in the mineral oil proportion	< 1,0 (%w/w) <i>declaration</i>	
sizeing preparation	Percentage of the component substances that shall be a) sufficiently biodegradable or b) eliminable in wastewater treatment plants, or c) else be recycled.	> 95% <i>declaration en/of test</i>	
Spinning solution additives, spinning additives and preparation agents for primary spinning ¹¹	Percentage of the component substances that shall be a) sufficiently biodegradable or b) eliminable in wastewater treatment plants.	> 90% <i>declaration en/of test</i>	
11. Biocidal or biostatic products	Use of chlorophenols (their salts and esters) and PCB during transportation or storage ¹²	Forbidden <i>declaration</i>	0,05 (ppm)
	Use of organotin compounds during transportation or storage ¹²	Forbidden <i>declaration</i>	
	applied biocidal or biostatic products to products so as to be active during the use phase.	Forbidden <i>declaration</i>	Forbidden
12. Stripping or depigmentation	Use of heavy metal salts ¹³ , formaldehyde for stripping or depigmentation.	Forbidden <i>declaration</i>	

⁹ VOCs are any organic compound having at 293,15 K a vapour pressure of 0,01 kPa or more, or having a corresponding volatility under the particular conditions of use.

¹⁰ PAH = polycyclic aromatic hydrocarbons

¹¹ Deze eis geldt niet voor prepareermiddelen voor secundair spinnen, spoelolie, ketting-en twijnolie, was, breiolie, siliconenolie en anorganische stoffen.

¹² of products and semi-manufactured products.

¹³ except of iron

13. Weighting	Use of compounds of cerium shall in the weighting of yarn or fabrics.	Forbidden <i>declaration</i>	
14. Auxiliary chemicals	Use of APEO's, LAS, DTDMAC, DSDMAC, DHTDMAC, EDTA, DTPA.	Forbidden ¹⁴ <i>declaration</i>	
15. Detergents, fabric softeners and complexing agents	Percentage by weight of detergents, fabric softeners and complexing agents that shall be sufficiently degradable or eliminable in wastewater treatment plants. ¹⁵	> 95% <i>declaration en/of test</i>	
16. Bleaching agents¹⁶	In general, AOX emissions in the bleaching effluent	< 40 (Cl/kg). <i>Declaration or test</i>	
	AOX emissions for linen and other bast fibres.	< 100 (Cl/kg). <i>Declaration or test</i>	
	AOX emissions for cotton, with a degree of polymerisation below 1 800, and intended for white end products.	< 100(Cl/kg) <i>Declaration or test</i>	
17. Impurities in dyes	Maximum level of ionic impurities in the dyes used ¹⁷	<i>declaration</i>	Concentration of extractable heavy metals in textile (!)
	Ag	100 (ppm)	
	As	50 (ppm)	0,2 ¹⁸ (ppm)
	Ba	100 (ppm)	
	Cd	20 (ppm)	0,1 (ppm)
	Co	500 (ppm)	1,0 (ppm)
	Cr	100 (ppm)	1,0 (ppm)
	Cu	250 (ppm)	25 (ppm)
	Fe	2500 (ppm)	
	Hg	4 (ppm)	0,02 (ppm)
	Mn	1000 (ppm)	
	Ni	200 (ppm)	1,0 (ppm)
	Pb	100 (ppm)	0,2 (ppm)
	Sb	50 (ppm)	30 (ppm)
	Se	20 (ppm)	
	Sn	250 (ppm)	
	Zn	1500 (ppm)	
18. Impurities in pigments	Maximum level of ionic impurities in the pigments used.	<i>declaration</i>	Concentration of extractable heavy metals in textile (!)
	As	50 (ppm)	0,2 (ppm)
	Ba	100 (ppm)	
	Cd	50 (ppm)	0,1 (ppm)
	Cr	100(ppm)	1,0 (ppm)
	Hg	25 (ppm)	0,02 (ppm)
	Pb	100 (ppm)	0,2 (ppm)
	Sb	250 (ppm)	30 (ppm)
	Se	100 (ppm)	
	Zn	1000 (ppm)	

¹⁴ Deze stoffen mogen ook geen bestanddeel zijn van gebruikte preparaten of formuleringen.

¹⁵ At each wet-processing site.

¹⁶ This requirement does not apply to the production of man-made cellulose fibres.

¹⁷ Any metal that is included as an integral part of the dye molecule (e.g. metal complex dyes, certain reactive dyes, etc.) shall not be considered when assessing compliance with these values, which only relate to impurities.

¹⁸ For natural materials (inclusive wood) and metallic accessories.

19. Chrome mordant dyeing	Chrome mordant dyeing	Forbidden <i>declaration</i>	
20. Metal complex dyes, based on copper, chromium or nickel.	The emissions to water after treatment	< 75 Cu(mg/kg) < 50 Cr (mg/kg) < 75 Ni (mg/kg) <i>Declaration or test</i>	
	Percentage of each of those metal complex dyes applied (input to the process) that is discharged to waste water treatment.	cellulose dyeing: < 20% Other: < 7 % <i>Declaration or test</i>	
21. Azo dyes	Use of azo dyes that may cleave to any aromatic amines ¹⁹ .	Forbidden <i>declaration</i>	Forbidden
22. Dyes that are carcinogenic, mutagenic or toxic to reproduction	Use of carcinogenic dyes ²⁰	Forbidden <i>declaration</i>	Forbidden
	Use of mutagenic dyes	Forbidden <i>Declaration</i>	
	Use of toxic dyes	Forbidden <i>Declaration</i>	
	Percentage by weight of substances that are assigned or may be assigned to any of the following risk phrases: R40, R45, R46 R49, R60, R61, R62, R63, R68.	0,1 (%w/w) <i>Declaration</i>	
23. Potentially sensitising dyes	Use of allergenous dyes ²¹	Allowed if the fastness to perspiration is at least 4 <i>Declaration or test</i>	Forbidden
24. Halogenated carriers for polyester	Use of halogenated carriers	Forbidden <i>Declaration</i>	
25. Printing	Percentage of VOC ²² in the printing pastes.	< 5% <i>Declaration</i>	
	Plastisol-based printing	Forbidden <i>Declaration</i>	
26. Formaldehyde			
Products that come into direct contact with the skin	The amount of free and partly hydrolysable formaldehyde in the final fabric.	< 30 (ppm) <i>Declaration or test</i>	n.d. ²³
Other products	The amount of free and partly hydrolysable formaldehyde in the final fabric	< 300 (ppm) <i>Declaration or test</i>	n.d. ²³

¹⁹ aromatic amines: 4-aminodiphenyl, Benzidine, 4-chloro-o-toluidine, 2-naphthylamine, o-amino-azotoluene, 2-amino-4-nitrotoluene, p-chloroaniline, 2,4-diaminoanisole, 4,4'-diaminodiphenylmethane, 3,3'-dichlorobenzidine, 3,3'-dimethoxybenzidine, 3,3'-dimethylbenzidine, 3,3'-dimethyl-4,4'-diaminodiphenylmethane, p-cresidine, 4,4'-methylene-bis-(2-chloroaniline), 4,4'-oxydianiline, 4,4'-thiodianiline, o-toluidine, 2,4-diaminotoluene, 2,4,5-trimethylaniline, 4-aminoazobenzene, o-anisidine.

²⁰ C.I. Basic Red 9, C.I. Disperse Blue 1, C.I. Acid Red 26, C.I. Basic Violet 14, C.I. Disperse Orange 11, C. I. Direct Black 38, C. I. Direct Blue 6, C. I. Direct Red 28, C. I. Disperse Yellow 3.

²¹ C.I. Disperse Blue 3, C.I. Disperse Blue 7, C.I. Disperse Blue 26, C.I. Disperse Blue 35, C.I. Disperse Blue 102, C.I. Disperse Blue 106, C.I. Disperse Blue 124, C.I. Disperse Orange 1, C.I. Disperse Orange 3, C.I. Disperse Orange 37, C.I. Disperse Orange 76, C.I. Disperse Red 1, C.I. Disperse Red 11, C.I. Disperse Red 17, C.I. Disperse Yellow 1, C.I. Disperse Yellow 9, C.I. Disperse Yellow 39, C.I. Disperse Yellow 49

²² volatile organic compounds

²³ n.d. corresponds according to 'Japanese Law 112' test method with an absorbance unit less than 0,05 resp. <20 ppm

27. Waste water discharges from wet-processing	COD content of waste water from wet-processing sites, when discharged to surface waters after treatment, annual average.	< 25 (g/kg) <i>Declaration en test</i>	
If the effluent is treated on site and discharged directly to surface waters.	PH of effluent	6 – 9 pH	
If the effluent is treated on site and discharged directly to surface waters.	Temperature	< 40 (°C)	
28. Flame retardants	Maximum percentage (of weight) of flame retardant substances that are assigned or may be assigned any of the following risk phrases: R40, R45, R46, R49, R50, R51, R52, R53, R60, R61, R62, R63, R68.	0,1 (%w/w) <i>Declaration</i>	Forbidden to use
29. Shrink resistant finishes	Use of halogenated shrink-resist substances or preparations.	Forbidden, except for applying to wool slivers. <i>Declaration</i>	
30. Finishes	Maximum percentage (of weight) of finishing substances that are assigned or may be assigned any of the following risk phrases: R40, R45, R46, R49, R50, R51, R52, R53, R60, R61, R62, R63, R68.	0,1 (%w/w) <i>Declaration</i>	
31. Fillings	If filling materials consist of textile fibres it shall comply with these textile fibre criteria.	Criteria 1 to 9 (page 1 and 2)	
	Filling materials shall comply with these criteria.	Criteria 11 and 26 (page 2 and 4)	
	Detergents and other chemicals used for the washing of fillings (down, feathers, natural or synthetic fibres) shall comply with these criteria.	Criteria 14 and 15 (page 3)	
32. Coatings, laminates and membranes	Products made of polyurethane shall comply with this criterion.	Criterion 3 (page 1)	
	Products made of polyester shall comply with this criterion.	Criterion 8 (page 2)	
	Use of plasticizers or solvents, which are assigned or may be assigned at any of the following risk phrases: R40, R45, R46, R49, R50, R51, R52, R53, R60, R61, R62, R63, R68.	Forbidden <i>Declaration</i>	Total % of plasticizers: DINP, DNOP, DEHP, DIDP, BBP, DBP shall be < 0,1%
33. Energy and water use	Providing detailed information on water and energy use for the manufacturing sites involved in spinning, knitting, weaving and wet processing.	The applicant is requested, on a voluntary basis.	

3. Fitness for use criteria

		Ecolabel	Öeko-tex I (baby)
34. Dimensional changes during washing and drying	Information on dimensional changes (%) shall be stated on product information if the dimensional changes exceed this percentage ²⁴	<i>test</i>	
	curtains and for furniture fabric	2%	
	other woven products	6%	
	other knitted products	8%	
	terry towelling	8%	
35. Colour fastness to washing	Minimum level of colour fastness to washing (for colour change and staining). ²⁵	3-4 <i>test</i>	
	Minimum level of colour fastness to use of water		3 <i>test</i>
36. Colour fastness to perspiration (acid, alkaline)	Minimum level of colour fastness to perspiration (acid and alkaline). ²⁶ (for colour change and staining)	3-4 <i>test</i>	3-4 <i>test</i>
37. Colour fastness to wet rubbing	Minimum level of colour fastness to wet rubbing ²⁷	2-3 <i>test</i>	
38. Colour fastness to dry rubbing	Minimum level of colour fastness to dry rubbing. ²⁸	4 <i>test</i>	4 <i>test</i>
39. Colour fastness to light	Minimum level of colour fastness to light, for fabrics intended for furniture, curtains or drapes ²⁹	5 <i>test</i>	
	Minimum level of colour fastness to light, for all other products ²⁹	4 <i>test</i>	
40. Information appearing on the eco-label	Box 2 of the eco-label shall contain the following text: — reduced water pollution — hazardous substances restricted — whole production chain covered	<i>declaration</i>	

²⁴ This criterion does not apply to: a) fibres or yarn, b) products clearly labelled 'dry clean only' or equivalent (insofar as it is normal practice for such products to be so labelled), c) furniture fabrics that are not removable and washable.

²⁵ This criterion does not apply to products clearly labelled 'dry clean only' or equivalent, to white products or products that are neither dyed nor printed, or to non-washable furniture fabrics.

²⁶ This criterion does not apply to white products, to products that are neither dyed nor printed, to furniture fabrics, curtains or similar textiles intended for interior decoration.

²⁷ This criterion does not apply to white products or products that are neither dyed nor printed.

²⁸ This criterion does not apply to white products or products that are neither dyed nor printed, or to curtains or similar textiles intended for interior decoration.

²⁹ This requirement does not apply to mattress ticking, mattress protection or underwear.