

Eco-mark Scheme

ECOMARK CRITERIA FOR TEXTILES

(The Gazette of India, Extraordinary, Part II-Section 3(i), No. 322,
Oct. 8, 1996)

GENERAL REQUIREMENTS :

All the textile products manufactured shall meet relevant standards of Bureau of Indian Standards.

The product manufacturer must produce the consent clearance as per the provisions of Water (Prevention and Control of Pollution) Act 1974 and Air (Prevention and Control of Pollution) Act 1981, Water (Prevention and Control of Pollution) Cess Act, 1977 respectively, along with the authorisation, if required under Environment (Protection) Act, 1986 and the rules made thereunder to BIS while applying for Ecomark. Additionally, the manufacturer shall produce documentary evidence on compliance of the provisions related to noise level and occupational health under the provisions of Factories Act, 1948 and Rules made thereunder.

The product packaging may display in brief the criteria based on which the product has been labelled environment friendly.

The material used for product packaging shall be reusable or made from recyclable or biodegradable materials.

Fatty alcohol based non-ionics as emulsifier should be used wherever required.

Polyhalogenated based phenolic fire retardants shall not be used.

PRODUCT SPECIFIC REQUIREMENTS :

A.	COTTON, WOOL, MAN-MADE FIBRE & BLENDS			
S. No.	Parameters*	Max. limit, mg/kg (ppm)		
.	.	Baby	Close to Skin	Outer

		Clothing		Fabrics
1	2	3	4	5
1)	Free & Releasable Formaldehyde	20	75	300
2)	Extractable artificial sweat/salvia Heavy Metals Mercury	0.1	0.1	0.1
3)	Chromium III	0.1	0.1	0.1
4)	Chromium VI	Nil	Nil Below detectable limit	Nil
5)	Sum Parameters (as lead)	10.0	10.0	10.0
6)	Pentachlorophenol (PCP)	0.5	0.5 (Detectable limit using GC.MS)	0.5
7)	Volatile Hydrocarbons (non-halogens)	150	150	150
8)	Volatile Halogenated Organics	200	200	200
9)	Pesticides (Sum Parameter) **	1.0	1.0	1.0
10)	Banned Pesticides	Nil	Nil (Below detectable limit)	Nil
11)	pH of aqueous extract	4.0-7.5	4.0-7.5	4.0-7.5
12)	Coupled Amines released from Azo-dyes (Sum parameters) ***	50	50 (Detectable limit using GC-MS)	50

* The methods of tests for Eco-parameters are being developed by BIS and Textiles Committee. Till the methods of test are standardised, the manufacturer shall declare conformance taking into consideration the chemicals, auxiliaries and dyes used.

** The list of Pesticides used on cotton, banned restricted or withdrawn is appended at Appendix A.

*** The list of Coupled Amines released from Azo-dyes is appended as Appendix-B.

B. JUTE AND JUTE PRODUCTS			
S. No.	Parameters *	Max. limit, mg/kg.	
.	.	Home Textiles & Clothing	Hessians & Sockings
1	2	3	4
1)	Free and Releasable Formaldehyde		
.	Close to skin	75	NA
.	Outer Fabrics	300	NA
2)	Extractable artificial sweat/saliva	.	.
.	Heavy Metals	.	.
.	Mercury	0.1	NA
.	Chromium III	0.1	NA
.	Chromium VI	Nil (Below detectable limit)	NA
.	Sum parameters(as lead)	10.0	NA
3)	Non-halogenated Hydrocarbon	NA	3%
4)	Fatty esters based oil	2%	NA
5)	Pesticides (Sum Parameter)**	1.0	1.0
.	Banned Pesticides	Nil (Below detectable limit)	Nil
6)	PH of aqueous extract	6.0-7.0	6.0-7.0
7)	Coupled amines released from Azo-dyes (Sum parameters)***	50	50 (Detectable limit using GC-MS)

* The methods of tests for Eco-parameters are being developed by BIS and Textiles Committee. Till the methods of test are standardised. the manufacturer shall

declare conformance taking into consideration the chemicals, auxiliaries and dyes used.

** The list of Pesticides used on jute, banned restricted or withdrawn is appended as Appendix A.

*** The list of Coupled Amines released from Azo-dyes is appended as Appendix-B.

C. SILK AND SILK PRODUCTS				
S. No	Parameters*	Max. limit, mg/kg (ppm)		
		Baby Clothing	Close to Skin	Outer Fabrics
1	2	3	4	5
1)	Free & Releasable Formaldehyde	20	75	300
2)	Extractable artificial sweat/salvia Heavy Metals	0.1	0.1	0.1
.	Chromium III	0.1	0.1	0.1
.	Chromium VI	Nil	Nil Below detectable limit	Nil
.	Sum Parameters (as lead)	10.0	10.0	10.0
3)	Pentachlorophenol (PCP)	0.5	0.5 (Detectable limit using GC/MS)	0.5
4)	Volatile Hydrocarbons (non-halogens)	150	150	150
5)	Pesticides (Sum Parameter) **	1.0	1.0	1.0
	Banned Pesticides	Nil	Nil (Below detectable limit)	Nil
6)	pH of aqueous extract	4.0-7.5	4.0-7.5	4.0-7.5

	from Azo-dyes (Sum parameters) ***		(Detectable limit using GC-MS)	
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* The methods of tests for Eco-parameters are being developed by BIS and Textiles Committee. Till the methods of test are standardised, the manufacturer shall declare conformance taking into consideration the chemicals, auxiliaries and dyes used.

** The list of Pesticides used on Silk Worm rearing, banned restricted or withdrawn is appended as Appendix A.

*** The list of Coupled Amines released from Azo-dyes is appended as Appendix-B.