

Eco Mark Product Category No.136

“Reusable Products Version1.4” Certification Criteria

—Applicable Scope—

- A. Reused Filtering Materials for Replacement-Style Particulate Respirator (Individual Product Criteria-1)
- B. Air Cleaner Elements for medium-size and large-size automobiles (Individual Product Criteria-2)
- C. Electric Meter-Electric Sub meter (Individual Product Criteria-3)

Established: August 20, 2006
Term of validity: August 31, 2016

Japan Environment Association
Eco Mark Office

NOTE: This document is a translation of the criteria written in Japanese. In the event of dispute, the original document should be taken as authoritative.

Eco Mark Product Category No.136

“Reusable Products Version 1.4”
Basic Criteria

Japan Environment Association
Eco Mark Office

Preface (Structure of Certification Criteria)

This Product Category consists of “Basic Criteria” and “Individual Product Criteria” (Figure 1). The “Basic Criteria” includes all items of Certification Criteria to cover all applicable products for this Product Category. Prepared for each applicable product, on the other hand, the “Individual Product Criteria” consists of the two parts; excerpt part from the “Basic Criteria” to include essential items for certification of specific product, and additional part in the “Individual Product Criteria” in consideration for characteristics of each product.

In application, the applicant shall refer only to the “Individual Product Criteria” of the applicable product.

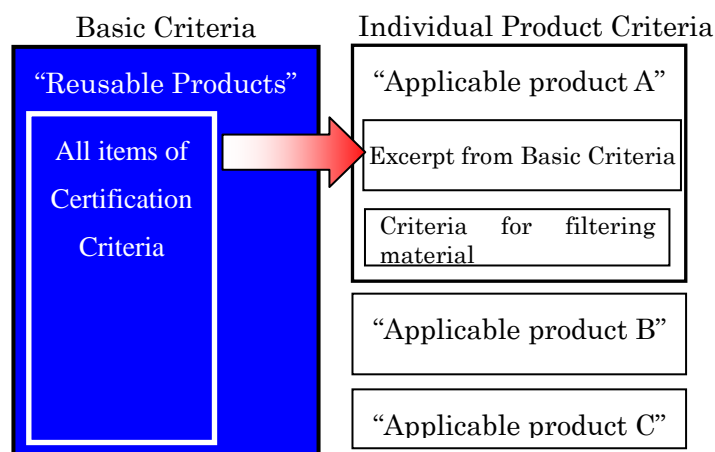
Preface (Structure of Certification Criteria)

Figure 1 Structure of Certification Criteria

1. Purpose of Establishing Certification Criteria

The aim of the Basic Law for Establishing the Recycling-Based Society (Law No.110, June 2, 2000) is to establish the recycling-based society in which consumption of natural resources is controlled and environmental burden is reduced as much as possible,

through the ways including control of products, etc. not to become waste and the promotion of cyclical use and proper treatment.

In addition, the law prescribes the priority of waste treatment as follows: 1. Reduce (control not to generate waste); 2. Reuse; 3. Recycling; 4. Heat recovery; 5. Proper treatment.

This Product Category aims to contribute to establishing the recycling-based society by certifying the reused products which could reduce environmental burden through their life-cycle and the system which provides the aforementioned products as Eco Mark Products.

2. Applicable Scope

The followings show the general requirements for applicable scope and concrete applicable products of this Product Category.

<General requirement>

The applicable products cover not only the products that possess large possibility to reduce environmental burden throughout lifecycle by reusing the products, but also the system which provide the above-mentioned products (including new products on the premise of reuse through the system). However, the reusable products which are generally traded as valuable things after disposal (example; used book and used car) are excluded.

Regarding requirements are as follows.

- 1) The provided products/functions shall have the functions equivalent of new products.
- 2) The products shall be designed for the purpose of being reused on manufacturing stage.
- 3) The system of collection/reuse shall be established.

Basically, the products which meet the requirements on the above are applicable for this Product Category. In other words, in Figure 2, the “Reusable” products within the outside frame and the “Reused” products within the inside frame are in the applicable scope.

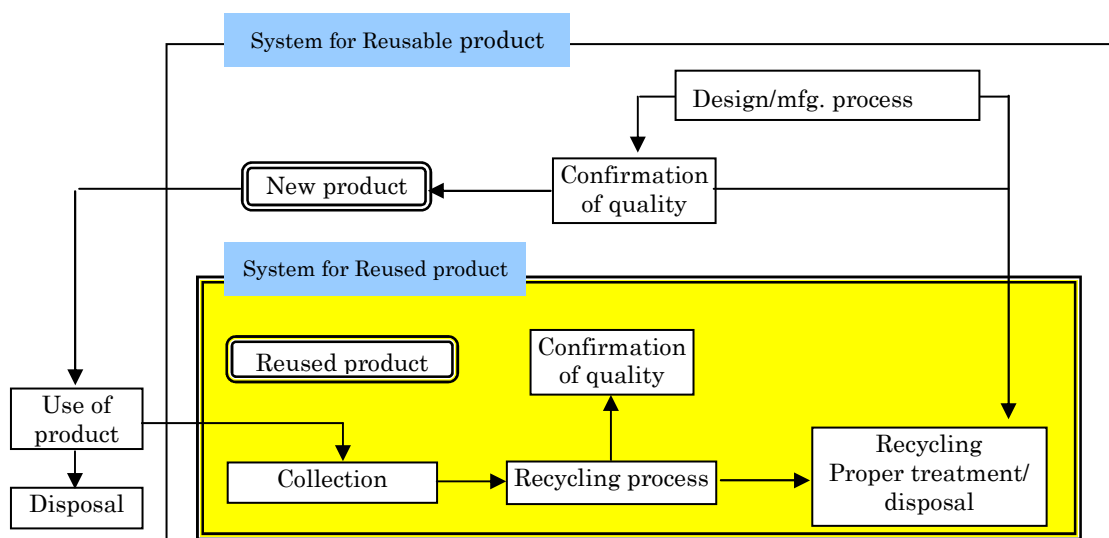


Figure 2 Applicable Scope of this Product Category

< Concrete applicable product >

1) Reusable filtering materials for replacement-style particulate respirator

The applicable products refer to the reused filtering materials used for replacement-style particulate respirator (JIS T8001-1992; No. 2220) defined in the JIS T8001-1992, and reusable products.

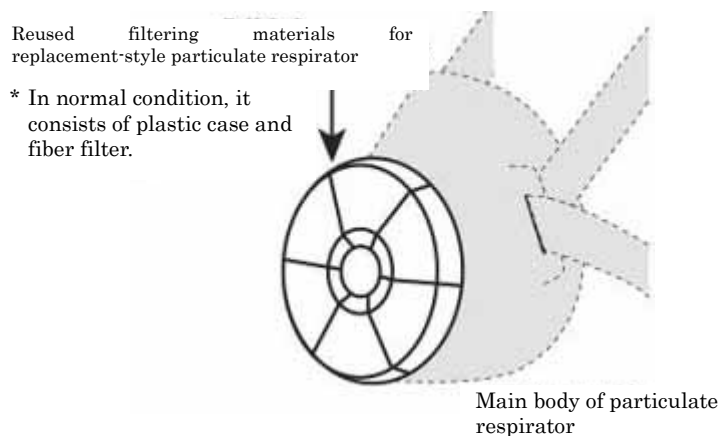


Figure 3 Basic concept of particulate respirator

< For reuse product which is not included in the applicable scope of this Product Category >

For the product which is included in the applicable scope of this Product Category, it is assumed that the classification of the product is not included in the applicable scope of the other Product Category. (For example, the reused digital duplicator is included in the applicable scope of the Product Category No. 133 "Digital Duplicator", not included in this Product Category.)

When the applicant applies to the Eco Mark for the products not included in the applicable scope of this Product Category and the other Product Categories, the applicant can newly propose the Product Category to the Eco Mark Office (Procedures for proposing new Product Category).

If the Eco Mark Committee for Establishing Category and Criteria certifies that a newly proposed reuse product is applicable for this Product Category, a working group will be established for each product, and the working group will prepare the applicable scope and contents of Certification Criteria.

3. Terminology

Collection rate	Value to show the proportion of the number of used products to be collected for the purpose of reuse to the number of products sold during the specific period of each product (total number of new products and reused products).
Reusable	“One of intended and designed characteristics or a product or package allowing it to be used repeatedly in an intended manner throughout its lifecycle”, under the condition that “a system exists that collects and reuses used products or packages” [see JIS Q 14021:2000].
Reused parts	The parts which are taken out from the used products, not given forming process, given proper treatment such as cleansing/grinding according to need, and utilized again as parts.
Recycling process	It refers to the whole process to reuse the used products including cleansing, disassembly, light grinding, part replacement, adjustment, confirming quality and shipment.
Prescription constituents	Intentionally-added material components to give certain characteristics to the products. Impurities that are technically unavoidable in the manufacturing process are not included.
Reuse	Used products are collected and given proper treatment to utilize again as products, or reusable parts of the product are utilized again.
Number of reuse	The number of reuse with going through recycling process.
Reusable product	Preliminarily-designed products to be reused through recycling process. Products with large possibility to reduce environmental burden throughout lifecycle by reusing the products including secondhand products (including new products premised on being reused through the system). However, the products which have

	already managed by market mechanism are excluded.
Reuse rate	Value to show the proportion of shipped products which go through recycling process to the number of products sold during the specific period of each product (total amount of new manufacturing and reuse).

4. Certification Criteria and Certification Procedure

4-1. Environmental Criteria and Certification Procedure

The following “4-1-1. Common Criteria” and “4-1-2. Material Criteria” include all items for the all applicable products in this Product Category. As for the satisfactory criteria of each product, refer to the Individual Product Criteria.

4-1-1. Common Criteria

- (1) The strength and structure of the product shall be designed on the premise of reuse

[Certification Procedure]

It shall be declared that the strength and structure of the product is designed on the premise of reuse in Attached Certificates.

- (2) In order to collect and reuse the used products, the system to conduct cleansing, part replacement, adjustment and others and ship again the reusable products shall be established

[Certification Procedure]

The explanatory document shall be submitted including the followings:

- 1) Collection route of used products
- 2) Explanation of total recycling process

- (3) The collection rate and the reuse rate of used products shall meet the values shown in Table 1.

For the products without actual management experience, the values shall be the planned values. After contracting the use of Eco Mark, the Eco Mark Office may ask the applicant to report the collection rate and reuse rate (or the Eco Mark Office may conduct audit), and the applicant shall cooperate with the Eco Mark Office

[Certification Procedure]

Report the actual results of amount of total shipment, amount of new products' shipment, amount of reuse products' shipment and amount of collection during the specific period (prescribed in Individual Product Criteria), and show the fact that the collection rate and reuse rate satisfy the values shown in Table 1.

In case that there are not many used products since the transitional period after sales is shorter than the lifespan of the product, and the collection rate and reuse rate can not be reported, the planned values shall be indicated.

Table 1 Values described in 4-1-1. (3) and (4)

Applicable product	Collection rate	Reuse rate	Proportion of reused parts
(1) Reused filtering materials for replacement-style particulate respirator	25% or more	22% or more	99% or more
(2)	XX% or more	XX% or more	XX% or more

- (4) For product required part replacement during recycling process, the proportion of replaced parts' weight to total weight of product per unit when maximum number of parts were replaced (theoretical value) shall satisfy the value of each product in Table 1.

[Certification Procedure]

For the product with part replacement during recycling process, show the weight proportion of reused parts (%) to total weight of product (100%) in case the number of replaced parts becomes maximum in design.

- (5) In manufacturing the applied product, related environmental laws and regulations and pollution control agreement (hereinafter referred to as the "Environmental Laws, etc.") must be followed with respect to air pollution, water contamination, noise, offensive odor, and emission of hazardous substances in the area where the plant performing the final manufacturing process is located

[Certification Procedure]

With respect to the compliance with the Environmental Laws, etc. in the area where the plant performing the final manufacturing process is located, a certificate issued by the representative of the business of manufacturing the applied product or the relevant plant manager (entry or attachment of a list of names of the Environmental Laws, etc.) must be submitted.

In addition, the applicants shall report whether there is any violation in the past five years, including a violation subject to administrative punishment or administrative guidance, and if there is, the following documents in a and b must be submitted:

- a. With respect to the fact of violation, guidance documents from administrative agencies (including order of correction and warning) and copies of written answers (including those reporting causes and results of correction) to such documents

(clearly indicating a series of communication);

b. Following materials (copies of recording documents, etc.) concerning the management system for compliance with the Environmental Laws, etc. in 1)-5):

- 1) List of the Environmental Laws, etc. related to the area where the plant is located;
- 2) Implementation system (organizational chart with roles, etc.);
- 3) Bylaws stipulating retention of recording documents;
- 4) Recurrence prevention measures (future preventive measures);
- 5) State of implementation based on recurrence prevention measures (result of checking of the state of compliance, including the result of onsite inspection).

- (6) Materials of containers and packaging to be used for transporting products between users and recycling businesses shall be designed to be able to use repeatedly. However, this item is not applicable for packaging, label, etc. which are used for breakage prevention, defacement prevention, ensuring hygiene and differentiation between used products and reuse products.

[Certification Procedure]

Written materials to confirm the materials and structures of containers and packaging used for transporting products between users and recycling businesses shall be submitted.

- (7) Plastic materials used for packaging of products shall not be added together with polymers that contain halogens and organic halogen compounds as prescribed constituents. Product packaging refers to one sales unit for final consumers.

[Certification Procedure]

Fill in the Attached Certificates that is polymers that contain halogens and organic halogen compounds are added or not.

- (8) The following items shall be clearly indicated for users on either of package of products, written documents such as instruction manuals packed with products, catalogues and website.

- Information disclosure items for all products including new products
 - a. Contact address
 - b. Collection method of used products when users return the used products
 - c. To be reusable products
 - d. Actual contents of recycling process
- Information disclosure items for actually reused products (Including a. to d.)
 - e. To be reused products

f. To be passed the quality inspection in recycling process (quality certificates, etc.)

[Certification Procedure]

Photographs and/or design drawings to show the contents and the labeled portion of indication shall be submitted.

- (9) The structure of products shall be designed to able to separate different materials (paper, wood, plastic, metal, glass, etc.) However, this item is not applicable for the products in which the separation of different materials is hard due to make them reusable with securing certain strength and function. For applicable products which exclude this item, indicate the fact clearly in Individual Product Criteria.

[Certification Procedure]

For the product combined with different materials, explanatory documents for easy separation/segregation of each material shall be submitted.

- (10) The product shall not contain halogen compounds. However this item is not applied for the products with 70% or more reuse rate.

[Certification Procedure]

Fill in the Attached Certificates that if the applied product falls under this criteria item or not. In case that the product falls under this criteria item, show the concrete reuse rate.

- (11) The product shall not contain Cd, Pb, Cr⁶⁺, Hg and their compounds as prescription constituents.

[Certification Procedure]

Fill in the Attached Certificates to declare that no corresponding chemical substances were added to the product as prescribed constituents during manufacturing.

- (12) For adhesive- or coating-used materials, no emissions of toluene or xylene shall be detected at product shipment. "No emission detected" means less than the minimum limit of determination value measured by the JIS A 1901 "Determination of the emission of volatile organic compounds (VOC), formaldehyde and other carbonyl compounds for building materials---Small chamber method". However, tests are not required for materials/products and outdoor goods which toluene and xylene, as prescribed constituents, are not added to.

[Certification Procedure]

Test results prescribed in JIS A 1901 shall be submitted for corresponding products or each adhesive and coating.

4-1-2. Material Criteria and Certification Procedure

A. Criteria for plastic and Certification Procedure

- (13) The product shall be marked to facilitate recycling. To indicate a type of polymers, a symbol of JIS K 6899-1 or ISO 1043-1 is used, and regarding to the indicating method, it shall follow the JIS K 6999. Though the above-mentioned display method is basically followed, it is possible to substitute it by the display that is obligated by other laws and regulations, etc. In addition, for the product to use multiple types of polymers, the indication such as ">PE<, PP, PS" can be used. [In case to use three or more types of polymers, indicate the top two polymers and the rest can be omitted. (example: ">PE<, PP, and the others")]

[Certification Procedure]

Photographs and/or design drawings to show the contents and the labeled portion of indication shall be submitted.

- (14) Plastic additives to be used for products including plasticizer, coloring agent, stabilizer, slip additive, etc. shall follow the positive lists specified by industry's own standard. In case there is no standard for the relevant industry, you can follow the similar industry's own standard.

[Certification Procedure]

Certification to indicate that plastic additives to be used for products including plasticizer, coloring agent, stabilizer, etc. follow the positive lists specified by industry's own standard shall be submitted.

- (15) The substances classified as Groups 1, 2A and 2B by IARC (International Agency for Research on Cancer), as prescription constituents, shall not be added to the products relevant to "1. Food/cosmetic containers, medical related products," "2. Accessories/personal adornments," and "3. Toys/play set/sporting goods" in Attachment 1. However, it excludes the chemical substances to use for the purpose of making polymers by polymerization reaction (ex; polyvinyl monomer, styrene).

[Certification Procedure]

Fill in the Attached Certificates that if the applied product falls under this criteria item or not. In case that the product falls under this criteria item, document certifying that the products do not contain chemical substances described in each criteria items as prescribed constituents shall be submitted.

- (16) The products relevant to "Food/cosmetic containers, medical related products" shall

meet the requirement of harmful substances in the Food Sanitation Law (December 24, 1947, Law No. 233). The products relevant to “Accessories/personal adornments” and “Toys/play set/sporting goods” shall meet the requirements of harmful substances described in 88/378/EEC EN-71 Part 3.

[Certification Procedure]

Test results to certifying that the products meet the requirement for corresponding harmful substances shall be submitted.

- (17) Elusion of chemical substances from products shall meet the requirements of the following eight items (cadmium, lead, hexavalent chromium, arsenic, total mercury, PCB, benzene and selenium) shown in Attachment 2 (December 26, 2002, Environment Ministerial Ordinance No.29) of the enforcement regulations of the environmental standard concerning soil contamination. However, in that an elusion test of the 88/378/EEC EN-71 Part 3 is conducted, and the result is reported, it is not necessary to conduct additional tests for cadmium, lead, hexavalent chromium, arsenic, total mercury and selenium

[Certification Procedure]

Test results to certifying that the products meet the requirement for corresponding harmful substances shall be submitted.

B. Criteria for rubber and Certification Procedure

- (18) Information on appropriate handling of products such as precautions on handling and storage and allergy information, etc. shall be provided in instruction manuals, on product labels and in pamphlets, the following requirements a and b shall be observed for indication of allergy information.

- a. In material labeling, name of materials related to natural rubber or synthetic rubber shall be indicated. For synthetic rubber, indicate the specific name in brackets following the name of the material.

Example: “Synthetic rubber (nitrile rubber)”, “Natural rubber”

- b. For synthetic rubber or natural rubber products, in addition to the current precautions on use, also include precautions on use for allergy referring to Example 1 below. For natural rubber products, in addition to the current precautions on use, also include precautions on use for latex allergy referring to Example 2.

Example 1: “May cause itchiness, skin irritation, rash. In such cases, discontinue use.”

Example 2: “This product is made of natural rubber. Natural rubber can rarely cause itchiness, redness, rash, bloating, fever, difficulty in breathing, asthma-like

symptoms, drop in blood pressure, shock and other allergic symptoms. In such cases, discontinue use promptly and consult your physician.”

[Certification Procedure]

The applicant shall submit photographs, etc. of the identification part which show the contents of allergy information.

C. Criteria for glass and Certification Procedure

- (19) Coloring agents used in the glass shall not contain cadmium, lead, mercury, chromium, arsenic and their compounds as prescribed constituents.

[Certification Procedure]

The ingredients table or Material Safety Data Sheet (MSDS) for coloring agents and others issued by their manufacturer shall be submitted.

D. Criteria for metal and Certification Procedure

- (20) Identification of collected materials (for example, steel, aluminum, etc.) shall be easy at recycling.

[Certification Procedure]

The applicant shall submit photographs, etc. of the identification part which show the material of the product.

E. Criteria for wood and Certification Procedure

- (21) Products shall not use wood preserving agents (wood termicides, preservatives, pesticides and fungicides) as prescribed constituents.

[Certification Procedure]

A list indicating whether the corresponding substances are added or not shall be submitted.

- (22) For materials using adhesives or coating, emissions of formaldehyde from each wooden material, adhesive or coating used shall be of the F**** grade in accordance with the JIS or JAS standard, or falling outside the scope of regulations by the Ministry of the Land, Infrastructure and Transport. The products shall meet the numerical criteria of a or b below.

- a. The amount of formaldehyde emissions measured by JIS A 1460 “Determination of formaldehyde emission of the building boards--- Desiccator method” shall be below 0.3mg/l for average value and below 0.4mg/l for maximum value.
- b. The emission rate of formaldehyde measured by JIS A 1901 “Determination of the emission of volatile organic compounds (VOC), formaldehyde and other carbonyl compounds for building materials--- Small chamber method” shall be less than $5 \mu \text{g/}$

(m²·h).

[Certification Procedure]

Results of test prescribed in JIS A 1460 or JIS A 1901 or tests by methods prescribed in specific JIS or JAS criteria shall be submitted to indicate that the standard values are met. For materials and products permitted to be labeled F**** grade in accordance with JIS or JAS, documents certifying the corresponding grade or copies of such documents can be submitted in place of test results. For materials and products authorized as falling outside the scope of regulations by the Ministry of Land, Infrastructure and Transport, documents certifying this or copies of such documents can be submitted in place of test results. For materials and products permitted to be labeled as using non-formaldehyde adhesives by JIS, documents certifying this or copies of such documents can be submitted in place of test results.

F. Criteria for fiber and Certification Procedure

- (23) Use of chemical substances in fiber shall meet standards shown in Attachment 1. [No.104 (3) Restriction on use of harmful substances]

[Certification Procedure]

Certificates shall be submitted in accordance with the Attachment 1..

G. Criteria for paper and Certification Procedure

- (24) The amount of coating shall be 17g/m² for single side, and 30g/m² or less for both sides.

[Certification Procedure]

Certificates of coating amount issued by the paper manufacturer shall be submitted. The certificate shall include the specific values of coating amount for single side and for both sides.

- (25) Chlorine gas shall not be used in the bleaching process of pulp.

[Certification Procedure]

Certificates issued by the paper manufacture shall be submitted.

- (26) Azo colorants (dyes and pigments) which may generate one or more amines of Attachment 2 in the decomposition of one or more azo radicals by reduction shall not be used in paper coloring process. If used, one or more amines listed in Attachment 2 shall not be detected in 30mg per kg or more of the product.

[Certification Procedure]

Certificates issued by the paper manufacturer indicating whether the concerned substances are used shall be submitted. If used, one of the three certificates 1) to 3)

below issued by the paper manufacturer to certify that no amines in Attachment 1 have been detected exceeding 30mg per kg of the paper shall be submitted.

- 1) Certificates specifying that no azo colorants exceeding 30mg per kg of the paper are contained.
- 2) Certificates specifying that no amines in Attachment 1 have been detected exceeding 30mg per kg of the product after considering every such risk in theory.
- 3) Certificates specifying that no amines in Attachment 2 exceeding 30mg per kg of the product have been detected by an analysis method prescribed in the list of public listing methods based on Article 35 of the German law on foods and daily supplies.

4-2. Quality Criteria and Certification Procedure

(12) For quality and safety, the product shall meet appropriate quality criteria such as JIS. Reuse products shall also meet quality criteria equivalent to the one for new products. In case that the third party applies to Eco Mark for the reuse product, the business which conducted recycling process for reuse shall ensure quality and claim management.

Quality Criteria for each applicable product are indicated in Individual Product Criteria.

[Certification Procedure]

Certificates stating that the product complies with appropriate quality criteria shall be submitted. Otherwise, certificates to specify that quality control were adequately implemented in the manufacturing stage and that no laws and regulations have been violated shall be submitted.

In case that the third party reuses, the documents to indicate the method to ensure quality and meet a complaint shall be submitted.

5. Product Category, Indication and Others

(1) The Product Category (unit for application) shall be established for each product type described in the “2. Applicable Scope”. Please refer to the Individual Product Criteria.

(2) In case that the third party other than the manufacturer reuses the product and the Eco Mark is attached on the original product, the original Eco Mark shall be removed and the newly certified Eco Mark shall be indicated based on the certification which was obtained by an applicant.

(3) The lower line in the Eco Mark shall be designated by Individual Product Criteria.

The location of the Eco Mark and the contents included in the Eco Mark shall be submitted when applying for Eco Mark Product Certification/Use. The environmental information indicated shall be enclosed in a rectangular box.

The stocks of certified products produced during the licensing period are exceptional and allowed to use the former statements below the mark and its certification numbers for a year from the date on which the contract is renewed as a basic rule.

Example :



Reusable (or Reused) Products

XXX Ltd. (Contractor for the Eco-Mark)

Eco Mark Certification Number

No. XXXX (Indication of numbers only is allowed)

(4) The Eco Mark labeling method shall be used in accordance with “Eco Mark Use Regulations Article 7” separately prescribed on the basis of the Guidelines for Eco Mark Program Implementation.

(5) In case that the applicant is the third party other than the manufacturer of the product, the applicant shall provide claim management and ensure quality of the reuse products to provide.

(6) In principle, the products to be applied shall be free of “flame retardant”, “antibacterial agent” materials and “biodegradable plastic” indication. When using these materials reasoning special circumstances, however, the products shall satisfy the provisions contained in the “Guidelines for Eco Mark Program Implementation” concerning “flame retardant”, “antibacterial agent” and “indication of biodegradable plastic”. Specifically, the use of these materials shall be described in the form “Application for Eco Mark Product Certification/Use” with documents stipulated in the form to be attached.

Established: August 20, 2006 (Version1.0)

Revised: December 21, 2006 (Version1.1)

Revised: June 9, 2008 (Version1.2)

Revised: August 21, 2008 (Version 1.3)

Extension of Validity Period: April 28, 2009

Revised: March 20, 2010 (Version 1.4)

Validity Period: August 31, 2016

The Certification Criteria for the Product Category will be revised when necessary.

Attachment 1- Substances described in 4-1-2. (23)**Criteria on Chemical Substances in Textile Products**

The chemical substances listed below shall meet the conditions indicated under “Criteria” for all applicable products.

To prove compliance with the conditions, chemicals falling under No. 1 are required to indicate if they have been mildewproof-finished. For products with mildewproof finish, the agent used for finishing shall be specified. For formaldehyde under No. 2, the results of the test for each different fabric prescribed by Ordinance No. 34 of the former Ministry of Health and Welfare (MHW) shall be submitted. For chemicals under No. 3, whether wool is used shall be described. Wool products require the submission of documents certifying compliance with MHW Ordinance No. 34 of the applicable product. Chemicals under No. 4 shall be indicated if they have been fireproofed. For fireproofed products, the agent used for finishing shall be indicated, or documents certifying that these products are fireproofed shall be submitted.

No.	Name	Criteria	Test Method	Applicable Products
1	Organic mercury compound Triphenyl-tin compound Tributyl-tin compound	Shall not be detected	MHW Ordinance No. 34	All products
2	Formaldehyde	300 ppm or less		All products (excluding products installed in outdoors)
3	Dieldrin DTTB	30 ppm or less	MHW Ordinance No. 34	All products
4	APO TDBPP Bis (2,3-dibromopropyl) phosphate compound	Shall not be detected	MHW Ordinance No. 34	All products

Source: Law for the Control of Household Goods Containing Harmful Substances

The following processes shall meet the conditions given under precautions during processing.

To prove compliance with the conditions, any processing is required to indicate if the applicable product has been subject to any of these processes.

Name of	Precautions during processing
---------	-------------------------------

processing	
Fluorescent bleaching	Minimize processing to ensure that the processing is not done excessively. Avoid processing as much as possible for infants' products.
Flame proof finishing	Minimize processing to ensure that the processing is not done excessively.
Softening	
Sanitization	Voluntarily refrain from use of agents whose safety to the human body is suspected.
Product bleaching	In planning bleached products, ensure their safety first.

Source: Notice No. 569, 1972, Director-General of the Fiber and Goods Bureau, MITI
 Notice No. 289, 1973, Director-General of the Consumer Goods Industries Bureau, MITI
 Notice No. 226, 1988, Director-General of the Consumer Goods Industries Bureau, MITI

The following dyes of lists (1), (2), and (3) shall not be included in products as prescribed constituents.

Fabrics other than wool shall not include chrome dyes as proscribed constituents.

This shall be certified through the submission of certificates issued by the manage of the dye house.

(1) Azo dyes which may generate the following carcinogenic amines in degradation (Products detected with over 30 mg/product kg of more than one of the following amines using analysis methods prescribed in the List of Public Test Methods based on Article 35 of the German Food and Sundries Law)

Carcinogenicity Rank (A1)		
92-67-1	4-aminobiphenyl	C1 (EU), 1(NTP, IARC)
92-87-5	Benzedrine	C1 (EU), 1(NTP, IARC)
95-69-2	4-chloro-o-toluidine	2A(NTP, IARC)
91-59-8	2-naphthylamine	C1 (EU), 1(NTP, IARC)
Carcinogenicity Rank (A2)		
97-56-3	o-aminoazotoluene	C2 (EU), 2B(NTP, IARC)
99-55-8	2-amino-4-nitrotoluene	3(NTP, IARC)
106-47-8	4-chloroaniline	C2 (EU), 2B(NTP, IARC)
615-05-4	2,4-diaminoanisole	2B(NTP, IARC)
101-77-9	4,4'-diaminodiphenylmethane	C2 (EU), 2B(NTP, IARC)
91-94-1	3,3-dichlorbenzidine	C2 (EU), 2B(NTP, IARC)
119-90-4	o-dianisidine; 3,3'-Dimethoxybenzidine	C2 (EU), 2B(NTP, IARC)
119-93-7	o-tolidine; 3,3'-Dimethylbenzidine	C2 (EU), 2B(NTP, IARC)
838-88-0	4,4'-diamino-3,3'-dimethyldiphenylmethane	C2 (EU), 2B(NTP, IARC)

120-71-8	p-cresidine	2B(NTP, IARC)
101-14-4	4,4'-diamino-3,3'-dichlorodiphenylmethane	C2 (EU), 2A(NTP, IARC)
101-80-4	4,4'-diaminodiphenylether	2B(NTP, IARC)
139-65-1	4,4'-diaminodiphenylsulfide	2B(NTP, IARC)
95-53-4	o-toluidine	C2 (EU), 2B(NTP, IARC)
95-80-7	2,4-diaminotoluene	C2 (EU), 2B(NTP, IARC)
137-17-7	2,4,5-trimethylaniline	
90-04-0	o-anisidine	C2 (EU), 2B(NTP, IARC)
95-68-1	2,4-xylidine	3(NTP, IARC)
87-62-7	2,6-xylidine	2B(NTP, IARC)
60-90-3	4amino-azo-benzen	C2 (EU)

(2) Carcinogenic Dyes

569-61-9	C.I. BASIC RED 9	CI 42500	C2 (EU), 2B(NTP, IARC), Oeko-Tex
2475-45-8	C.I. DISPERSE BLUE 1	CI 64500	C2 (EU), 2B(NTP, IARC), Oeko-Tex
3761-53-3	C.I. ACID RED 26	CI 16150	2B(NTP, IARC), Oeko-Tex
6459-94-5	C.I. ACID RED 114	CI 23635	2B(NTP, IARC)
2602-46-2	C.I. DIRECT BLUE 6	CI 22610	C2, R3 (EU), 2A(NTP, IARC), Oeko-Tex
1937-37-7	C.I. DIRECT BLACK 38	CI 30235	C2, R3 (EU), 2A(NTP, IARC), Oeko-Tex
573-58-0	C.I. DIRECT RED 28	CI 22120	C2, R3 (EU), Oeko-Tex
	C.I. DISPERSE YELLOW 3	CI 11855	Oeko-Tex

(3) Skin Sensitizing Dyes

2475-46-9	C.I. DISPERSE BLUE 3	CI 61505	ETAD, Oeko-Tex
	C.I. DISPERSE BLUE 35		ETAD, Oeko-Tex
	C.I. DISPERSE BLUE 106		ETAD, Oeko-Tex
	C.I. DISPERSE BLUE 124		ETAD, Oeko-Tex
2832-40-8	C.I. DISPERSE YELLOW 3	CI 11855	ETAD, Oeko-Tex
730-40-5	C.I. DISPERSE ORANGE 3	CI 11005	ETAD, Oeko-Tex
	C.I. DISPERSE ORANGE 37		ETAD, Oeko-Tex
2872-52-8	C.I. DISPERSE RED 1	CI 11110	ETAD, Oeko-Tex
	C.I. DISPERSE BLUE 1	CI 64500	Oeko-Tex
	C.I. DISPERSE BLUE 7	CI 62500	Oeko-Tex

	C.I. DISPERSE BLUE 26	CI 63305	Oeko-Tex
	C.I. DISPERSE BLUE 102		Oeko-Tex
	C.I. DISPERSE ORANGE 1	CI 11080	Oeko-Tex
	C.I. DISPERSE ORANGE 76		Oeko-Tex
	C.I. DISPERSE RED 11	CI 62015	Oeko-Tex
	C.I. DISPERSE RED 17	CI 11210	Oeko-Tex
	C.I. DISPERSE YELLOW 1	CI 10345	Oeko-Tex
	C.I. DISPERSE YELLOW 9	CI 10375	Oeko-Tex
	C.I. DISPERSE YELLOW 39		Oeko-Tex
	C.I. DISPERSE YELLOW 49		Oeko-Tex

Source: International Agency for Research on Cancer (IARC)
National Toxicology Program (NTP)
EU Directive 76/769/EC
EU Directive 2002/61/EC
Ecological and Toxicological Association of the Dyes and Organic
Pigments Manufacturers (ETAD)
Oeko-Tex STANDARD 100

Attachment 2

List of amines which shall not produced by decomposition of azo radicals

Substances described in 4-1-2. (26)

	Substances	CAS No.
1	4-aminobiphenyl	92-67-1
2	Benzedrine	92-87-5
3	4-chloro- <i>o</i> -toluidine	95-69-2
4	2-naphthylamine	91-59-8
5	<i>o</i> -aminoazotoluene	97-56-3
6	2-amino-4-nitrotoluene	99-55-8
7	<i>p</i> -chloroaniline	106-47-8
8	2,4-diaminoanisole	615-05-4
9	4,4'-diaminodiphenylmethane	101-77-9
10	3,3'-dichlorbenzidine	91-94-1
11	3,3'-dimethoxybenzidine	119-90-4
12	3,3'-dimethylbenzidine	119-93-7
13	4,4'-diamino-3,3'-dimethyldiphenylmethane	838-88-0
14	<i>p</i> -cresidine	120-71-8
15	4,4'-Methylene-bis - (2-Chloroaniline)	101-14-4
16	4,4'-oxydianiline	101-80-4
17	4,4'-4-Aminophenyl Sulfide Bis	139-65-1
18	<i>o</i> -toluidine	95-53-4
19	2,4-diaminotoluene	95-80-7
20	2,4,5-trimethylaniline	137-17-7
21	<i>o</i> -anisidine	90-04-0
22	4-amino- azo- benzen	60-09-3