

Eco Mark Product Category No.101

**“Bags and Suitcases Version1.4”
Certification Criteria
Category F “Suitcases, Attaché cases”**

Japan Environment Association
Eco Mark Office

1. Purpose of Establishing Criteria

Omitted.

2. Applicable Scope

Suitcases (including big-size bags, half-tatami size suitcases, air travel suitcases, window cases, smart cases, car travel cases, double-handle suitcases, open cases, and foldable cases) meeting the definition of “Travel Bags” by Japan Luggage Association based on the Standard Commodity Classification for Japan and attaché cases belonging to the classification “Business Bags” pursuant to the Standard Commodity Classification for Japan that use leather or synthetic resin as main raw material.

3. Terminology

Omitted.

4. Certification Criteria and Certification Procedure

To show conformance to the individual criteria item, the respective Attached Certificates shall be submitted.

4-1. Environmental Criteria and Certification Procedure

4-1-1. Environmental Common Criteria and Certification Procedure

- (1) 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.

In addition, the state of compliance with the Environmental Laws, etc.

for the past five years from the date of application (whether there is any violation) must be reported. If there is any violation, proper remedies and preventive measures shall have been already taken, and the related Environmental Laws, etc. must thereafter be followed appropriately.

[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).

- (2) The product shall not be used of any of the five specified CFCs listed in the Attached Table 1, other CFCs, carbon tetrachloride, trichloroethane, or CFC substitutes (HCFC).

[Certification Procedure]

The final manufacturing plant shall submit a certificate to show that no substances on the above have been used.

(3) The applicant shall have a system to ensure longtime use of the Eco Mark certified product. More specifically, the following conditions shall be met:

- The product shall be repairable for recovery of its functions (repairs and replacement of the handle, fastener, inner lining, etc.) and shall undertake repairs, if so requested by the user of the applied product, at any time before elapse of five (5) years from the date of termination of the product model. In addition, information on such service shall be made publicly available.
- There shall be a system in place for replacement of buttons and other attachments, provided the applicant is not required to provide such replacement service by itself. In addition, information on such system shall be made publicly available.

[Certification Procedure]

Documents providing below information to users (user manuals, catalogs, etc.) shall be submitted.

- Statement by the applicant that repairs shall be made upon request of the user at any time before elapse of five (5) years from the date of termination of the product mode.
- That there is a system in place for replacement of buttons and other attachments (provided the applicant is not required to provide such replacement service by itself).

(4) The plastic materials used in the packaging of the product shall not contain halogens to the polymer backbone as prescribed constituents. The packaging of the product refers to one sales unit toward a final consumer.

[Certification Procedure]

Addition or not of halogens to the polymer backbone of any plastic materials used in the packaging of the product shall be mentioned in the Attached Certificate.

- (5) With respect to products that use metal (including plated metal) in their handle, fastener, or shoulder belt, information on the kind of metal used and on allergy to metal shall be given in the user manual, product label or brochure.

[Certification Procedure]

The portion (or a photocopy thereof) of such user manual, etc. showing the above information shall be submitted.

Description example: “The handle of this product uses metallic parts. Metals can cause skin itching, irritation, rash, etc. to some people. Discontinue use immediately when any anomaly appears. (Handle made of titanium)”

4-1-2. Certification Criteria on Main Material and Certification Procedure

The criteria “A” herein below shall apply to suitcases and attaché cases that use plastics at main raw material. Provided however, the criteria “B” herein below shall apply to suitcases and attaché cases having **60% or more** of their outer surface area (the outer surface area excluding the part covered by any flap and before attaching any handle or other accessories) **made of leather**.

A. Products having plastics as main raw material

- (6) Eighty percent (80%) or more by weight of the recovered product shall be recycled (excluding thermal recycling). Provided however, conversion of plastics (excluding plastics that have halogens added to the polymer backbone as ingredient as well as organic halogen compounds as flame retardant) into refuse plastic fuel (RPF) to be used as substitute for coal, heavy oil and other fossil fuels shall qualify as conformance to this criteria.

[Certification Procedure]

The design specifications for the structure and weight of parts to be recycled or other certificates showing that the portion to be recycled represent 90% or more shall be submitted. In addition, documents describing the name of recycler, usage of recycled materials and other pertinent information on the recycling shall be submitted.

- (7) There shall be a system in place operated by the manufacturer (or an association of manufacturers) for free-of-charge collection and recycling of the applied product. Such a system shall be easily utilizable by the user after its use without bearing any collection or recycling fee anew. Moreover, information on such a system shall be publicly available.

[Certification Procedure]

Documents describing the collection/recycling system in question shall be submitted. In addition, user manual and the like stating the users can easily utilize the system without bearing any collection or recycling fee anew (such as charge-on-delivery courier service or collection service at retailers) shall be submitted.

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

In case of using the plastic additives which are not listed in the positive lists for the products, the plastic additives can meet the requirements of harmful substances described in ISO 8124-3 (Corresponding standard: 88/378/EECEN71 - 3).

[Certification Procedure]

The manufacturer shall submit a certificate to show that plastic additives to be used for products including plasticizer, coloring agent, stabilizer, slip additives, etc. follow the positive lists. For plastic additives which are not listed in the positive lists for the products, test results to show that the plastic additives meet the requirements of harmful substances described in ISO 8124-3 (Corresponding standard: 88/378/EECEN71 - 3) shall be submitted.

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

[Certification Procedure]

The applicant shall submit a certificate to show that no applied chemical substances have been added to the product as prescribed constituents.

- (10) The products shall not be added the substances classified as Groups 1, 2A and 2B by IARC (International Agency for Research on Cancer) as prescribed constituents. However, it excludes the chemical substances to use for the purpose of making polymers by polymerization reaction (ex; polyvinyl monomer, styrene, etc.).

[Certification Procedure]

The applicant shall indicate in the Attached Certificate whether the product is applicable or not to this item. If applicable, the certificate to show that no chemical substances listed in each item have been added as prescribed constituents.

B. Product mainly made of material leather

- (11) The material leather used in the product shall be hide of cow, pig, sheep, horse or goat and shall be a byproduct of sacrificing for meat for food.

[Certification Procedure]

The surface areas of product total, leather part and non-leather part shall be specified in the Attached Certificate. With respect to the material leather, a raw material supply certificate issued by the leather manufacturer shall be attached.

- (12) The product shall be free of odor by mold, fish, petroleum, odorant, etc. "Free of odor" as used herein shall mean the result of an odor test pursuant to the 5-scale sensory panel method (German Industrial Standard DIN10995 or Swiss National Standard SNV195651) is Grade 3 or less.

[Certification Procedure]

Test results by an independent organization shall be submitted with respect to the odor from the product or the material leather.

- (13) Every applied product shall conform to the standard values of formaldehyde content shown in Table 1.

Table 1 Standards for formaldehyde content

Substance	Applied product			Test method
	Infant (less than 36 months old)	Adult (skin contact* 1)	Adult (others)	
Formaldehyde	16mg/kg max	75mg/kg max	300mg/kg max	Ministerial Order No.34 of the Ministry of Health and Welfare DIN 17226

* 1... Products that are likely to come in direct contact with skin

[Certification Procedure]

Test results by an independent organization shall be submitted with respect to formaldehyde content in the product.

- (14) Every applied product shall conform to the standard values of heavy metal elution from the material leather shown in Table 2.

Table 2 Standards for heavy metal elution

Substance	Applied product		Test method
	Infant (less than 36 months old)	Adult (36 months old or older)	
Lead	0.2mg/kg max	0.8mg/kg max	ISO105E04, IULTCS DC (75), DIN38406 (6/22/29), (reference) 2000/53/EC* 2
Cadmium	0.1mg/kg max	0.1mg/kg max	ISO105E04, IULTCS DC (75), DIN38406 (22/29), (reference) 2000/53/EC* 2
Mercury	0.02mg/kg max	0.02mg/kg max	ISO105E04, IULTCS DC (75), DIN38406 (12/29), (reference) 2000/53/EC* 2

Nickel	1.0mg/kg max	4.0mg/kg max	ISO105E04, IULTCS DC (75), DIN38406 (22/29), (reference) 67/548/EEC* ³
Cobalt	1.0mg/kg max	4.0mg/kg max	ISO105E04, IULTCS DC (75), DIN38406 (22/29), (reference) 67/548/EEC* ³
Hexavalent chromium	Not detectable	Not detectable	DIN54020 DIN53314 IULTCS-IUC18 (reference) 2000/53/EC* ²
Total chromium	50mg/kg max	200mg/kg max	ISO105E04, IULTCS DC (75), DIN38406 (10/22), IULTCS-IUC8

* 1... Directive 2000/53/EC of the European Parliament and of the Council dated September 18, 2000 on End-of-Life Vehicles (ELV)

* 2... Council Directive 67/548/EEC relating to the classification, etc. of dangerous substances

[Certification Procedure]

Test results by an independent organization shall be submitted with respect to heavy metal elution from the material leather.

- (15) Every applied product shall conform to the standard values of pentachlorophenol (PCP) elution from the material leather shown in Table 3.

Table 3 Standards for pentachlorophenol (PCP) elution

Substance	Applied product		Test method
	Infant (less than 36 months old)	Adult (36 months old or older)	
Pentachlorophenol (PCP)	0.05mg/kg max	0.5mg/kg max	DIN EN ISO 17070 IULTCS-IUC25 (reference) 67/548/EEC 76/769/EEC* ⁴ LMBG82-02-8

*3... Council Directive 76/769/EEC relating to restrictions on the marketing and use of certain dangerous substances and preparations

* 4... German Foodstuffs and Commodities Act

[Certification Procedure]

Test results by an independent organization shall be submitted with respect to pentachlorophenol elution from the material leather.

- (16) None of the dyestuffs listed in Attached Table 2 shall have been added as prescribed constituents to the material leather used in the product.

[Certification Procedure]

A dyeing certificate issued by the leather manufacturer shall be attached with respect to any dyestuffs used for the material leather.

- (17) The color fastness of the material leather used in the product shall conform to the standard values shown in Table 4 with respect to the type of finish and color density of the leather.

Table 4 Standards for dyestuff fastness

	Dry test	Wet test	Test method
Pigment finish leather	Grade 3-4	Grade 2-3	ISO11640
Natural finish pale color	Grade 3-4	Grade 2-3	
Natural finish dark color	Grade 2-3	Grade 2	

[Certification Procedure]

Test results by an independent organization shall be submitted with respect to color fastness of the material leather.

- (18) The plastic materials (including resin as fiber in this item) used in the product shall not contain halogens to the polymer backbone as prescribed constituents.

[Certification Procedure]

Addition or not of halogens to the polymer backbone of any plastic materials used in the product shall be mentioned in the Attached Certificate.

4-2. Quality Criteria and Certification Procedure

- (19) The product quality and safety shall conform to the standards of an independent test organization or the voluntary standards of the applicant. As test items under such standards, (i) impact strength by

drop test, (ii) travel performance of caster, (iii) handle strength, (iv) opening and closing of locks, and (v) resin strength shall be mandatory (exemplary test methods shown in Attached Table 2).

[Certification Procedure]

Test results by an independent test organization shall be submitted. Alternatively, a certificate issued by the applicant stating conformance to the applicant's in-house standards shall be submitted.

5. Product Classification, Indication and Others

Omitted.

August 27, 2007	Established (Version 1.0)
August 21, 2008	Revised 4-1(8) (Version 1.1)
April 20, 2010	Revised (Version 1.3)
March 1, 2011	Revised (Version 1.4)
August 31, 2017	Validity Period

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

Attached Table 1

CFC5s	Trichlorofluoromethane
	Dichlorodifluoromethane
	Trichlorotrifluoroethane
	Dichlorotetrafluoroethane
	Chloropentafluoroethane
Other CFCs	Chlorotrifluoromethane
	Pentachlorofluoromethane
	Tetrachlorodifluoroethane
	Heptachlorofluoropropane
	Hexachlorodifluoropropane
	Pentachlorotrifluoropropane
	Tetrachlorotetrafluoropropane
	Trichloropentafluoropropane
	Dichlorohexafluoropropane
	Chloroheptafluoropropane
	Carbon Tetrachloride
	1,1,1-Trichloroethane
HCFCs	Dichlorofluoromethane
	Chlorodifluoromethane
	Chlorofluoroethane
	Tetrachlorofluoroethane
	Trichlorodifluoroethane
	Dichlorotrifluoroethane
	Chlorotetrafluoroethane
	Trichlorofluoroethane
	Dichlorodifluoroethane
	Chlorotrifluoroethane
	Dichlorofluoroethane
	Chlorodifluoroethane
	Chlorofluoroethane
	Hexachlorofluoropropane
	Pentachlorodifluoropropane
	Tetrachlorotrifluoropropane
	Trichlorotetrafluoropropane
	Dichloropentafluoropropane
	Chlorohexafluoropropane
	Pentachlorofluoropropane
	Tetrachlorodifluoropropane
	Trichlorotrifluoropropane
	Dichlorotetrafluoropropane
	Chloropentafluoropropane
	Tetrachlorofluoropropane
	Trichlorodifluoropropane
	Dichlorotrifluoropropane
	Chlorotetrafluoropropane
	Trichlorofluoropropane
	Dichlorodifluoropropane
	Chlorotrifluoropropane
	Dichlorofluoropropane
	Chlorodifluoropropane
Chlorofluoropropane	

Attached Table 2

List of Dyes Prohibited to Use

(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)

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)
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)
60-09-3	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		C2, R3 (EU), 2A(NTP, IARC), Oeko-Tex (CI 22610)
1937-37-7	C.I. DIRECT BLACK 38	CI 30235	C2, R3 (EU), 2A(NTP, IARC), 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

Attached Table 3

Examples of Quality Test

Item	Procedure example
Shatter strength	- Drop the product with a load of XX kgf, at a height of YY cm.
Rolling of wheels	- Roll the wheels with a load of XX kgf for Y km, at a speed of Z km/h.
Strength of handle	- Raise the product with a load of XX kgh, for a period of YY seconds.
Locking/unlocking properties	- Repeat locking and unlocking XX times.
Strength of resin	- Conformity to JIS (e.g. K6873 Acrylonitrile-Butadiene-Styrene (ABS) Sheets).