

Eco Mark Product Category No.136

“Reusable Products Version1.7”

Certification Criteria

—Applicable Scope—

- A. Reusable Filtering Materials for Replacement-Style Particulate Respirator and Reusable Filtering Materials for Powered Air-Purifying 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

Last revised: April 1, 2016

Expiration Date: August 31, 2021

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 1.7”
Certification Criteria

A. Reusable Filtering Materials for Replacement-Style Particulate
Respirator and Reusable Filtering Materials for Powered
Air-Purifying Respirator (Individual Product Criteria-1)

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)

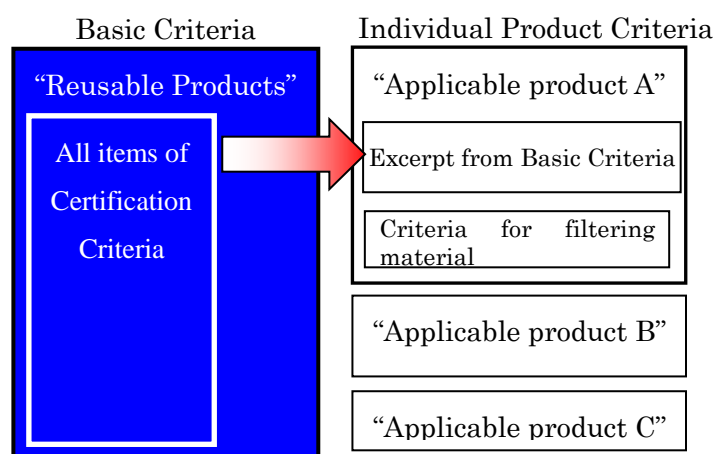


Figure 1 Structure of Certification Criteria

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.

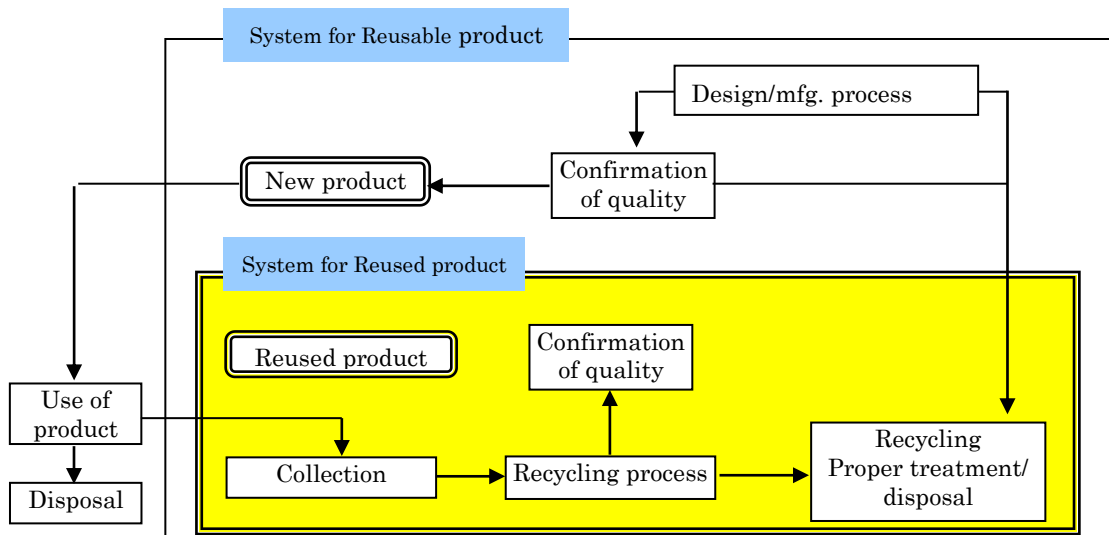


Figure 2 Applicable Scope of this Product Category

<Concrete applicable product>

- 1) Reusable filtering materials for replacement-style particulate respirator and reusable filtering materials for powered air-purifying respirator

The applicable products refer to the filtering materials used for “replacement-style particulate respirator” and filtering materials and filters used for “powered air-purifying respirator” defined in the JIS T8001, and products which are reusable.

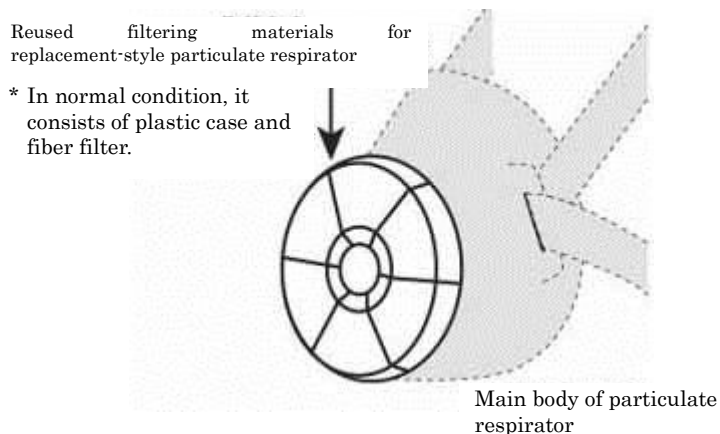


Figure 3-1 Basic concept of particulate respirator

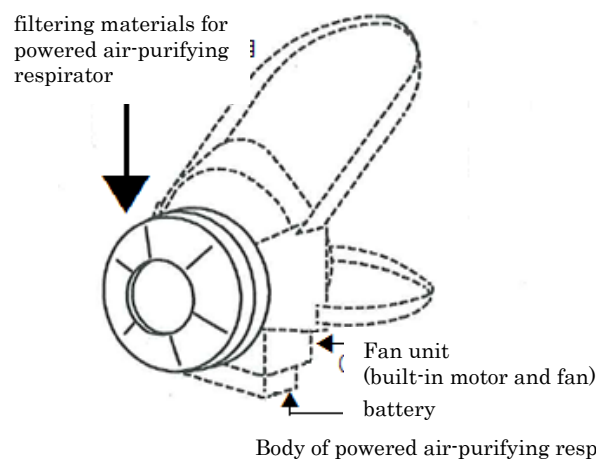
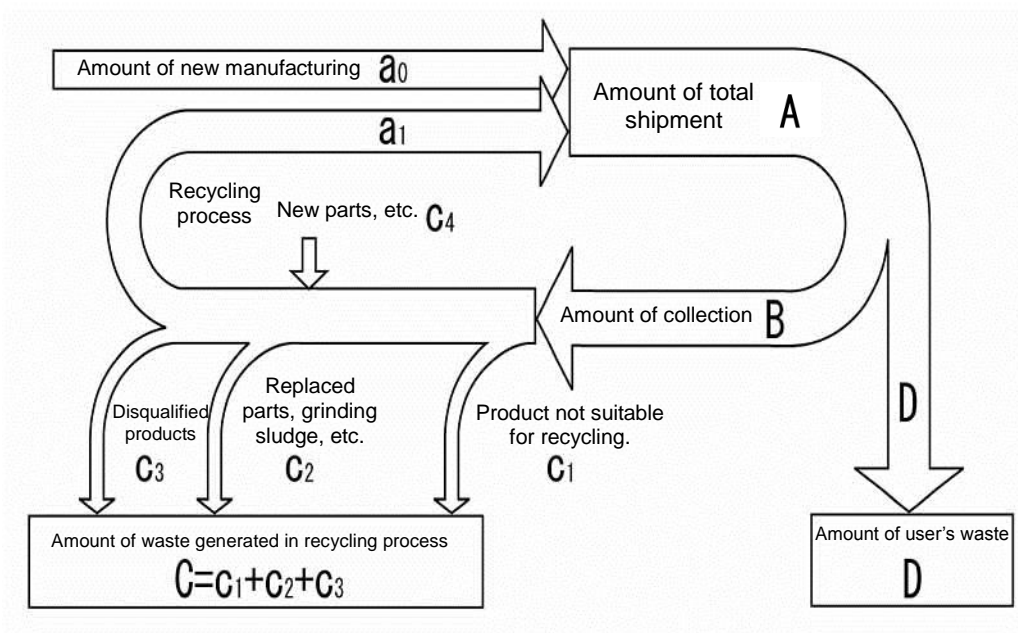


Figure 3-2 Basic concept of powered air-purifying respirator

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).



Collection rate (%) = Amount of collection (B) ÷ Total amount of shipment (A) × 100

Reuse rate (%) = Amount of reuse (a₁) ÷ Total amount of shipment (A) × 100

Figure 4 Concept of collection rate and reuse rate

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) Reusable filtering materials for replacement-style particulate respirator and reusable filtering materials for powered air-purifying respirator	25% or more	22% or more	99% 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 applying 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 manufacturer of the applying 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 product shall not contain halogen compounds (not applicable for water repellent and oil repellent). 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 does not conform to this criteria item, the concrete reuse rate shall be indicated

- (10) 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.

- (11) If a water repellent and oil repellent are used in filtering materials, perfluorooctane sulfonate (PFOS) and perfluorooctanoate (PFOA) shall not be added as a prescription constituent of the water repellent and oil repellent.

[Certification Procedure]

It shall be declared by a statement in the Attached Certificate that no relevant chemical substance has been added as a prescription constituent, in the manufacture of water repellent and oil repellent.

4-1-2. Material Criteria and Certification Procedure

Material Criteria are not applied.

4-2. Quality Criteria and Certification Procedure

- (12) For reusable filtering materials for a replacement-type particular respirator, new and reused products shall conform to “Standard for Dust Mask (Ministry of Labor, Notification No.19 of March 30, 1988) and “Regarding Selection, Use, etc. of Dust Mask (LSB [Labor Standard Bureau] Notification No.0207006 of February 7, 2005)”. For reusable filtering materials for powered air-purifying respirator, new and reused products shall conform to “Standard for Powered Air-Purifying Respirator (Ministry of Labor, Notification No.455 of November28, 2014). In addition, the applicant shall also verify quality of new and reused products.

When a third party applies for Eco Mark for a reused product, an operator that undertook the reproduction process for reusing shall be responsible for quality assurance of the reused product and handling of complaints.

[Certification Procedure]

A certificate that the product conforms to the relevant quality standard shall be submitted. A certificate that adequate quality control is in place in the manufacturing phases and reproduction process, and that there is no violation, etc. shall also be submitted

In addition, the applicant shall submit materials describing the quality verification process for the product (e.g., check items).

When the third party reuses the product, documents describing methods for quality

assurance or handling complaints 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. However, the indication of Eco Mark and certification information (Type B indication) can be allowed by following “Guide to Eco Mark usage” (enforced on March 1, 2011).

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) 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.

Established: August 20, 2006 (Version1.0)

Revised: December 21, 2006 (4-1.(9), (11) Version1.1)

Revised: June 9, 2008 (Version1.2)

Revised: August 21, 2008 (4-1.(5) Version 1.3)

Extension of Validity Period: April 28, 2009

Revised: March 20, 2010 (Version 1.4)

Revised: March 1, 2011 (Version 1.5)

Revised: July 13, 2012 (Version 1.6)

Revised: April 1, 2016 (A. addition of applicable scope, Version 1.7)

Expiration: August 31, 2021

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