

Eco Mark Product Category No.136

“Reusable Products Version 1.4”

Certification Criteria

B. Air Cleaner Elements for medium-size and large-size automobile (Individual Product Criteria-2)

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.

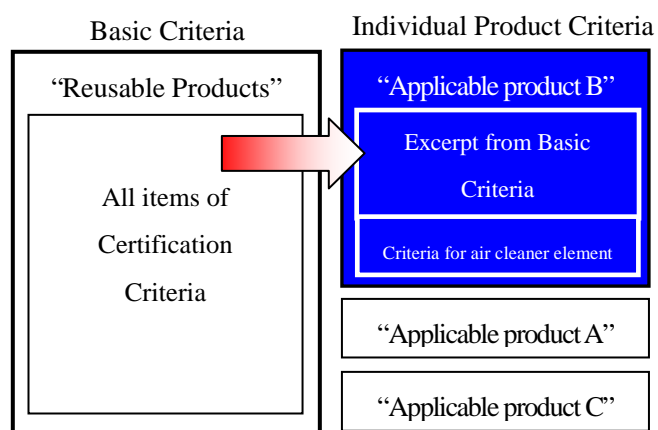


Figure 1 Structure of Certification Criteria

1. Purpose of Establishing Certification Criteria

Omitted

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.

- a. The reused products shall provide the functions equivalent of those of new products.
- b. The reusable products shall be designed for the purpose of being reused on manufacturing stages.
- c. 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. In the outside frame and the “Reused” products within the inside frame are applicable. By the way, even if there is no collection system by manufacturers but if there is any mechanism to definitely reuse products, the products shall be included in the system of “reused products.”

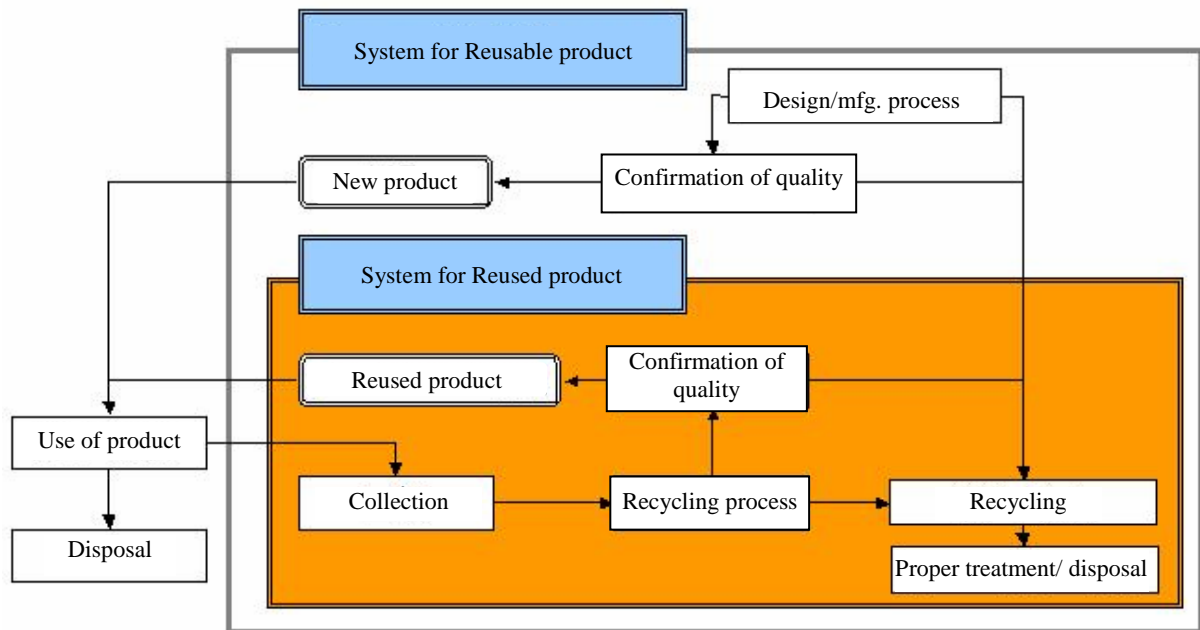


Figure 2 Applicable Scope of this Product Category

<Specific applicable product>

Air cleaner elements for medium-size and large-size automobiles

3. Terminology

Omitted.

4. Certification Criteria and Certification Procedure

4-1. Environmental Criteria and Certification Procedure

4-1-1. Common Criteria and Certification Procedure

- (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) Cleansing devices to reuse products whose performance as an intake air purifying system is degraded are provided by selling or leasing to product users. Or a system shall be established to introduce maintenance service businesses, etc. who can conduct proper cleansing of the intake air purifying system and to definitely reuse the products. In addition, components for replacement shall be

provided to product users.

[Certification Procedure]

Explain the method to provide cleansing devices, components to users and at the same time, submit catalogs, photos, etc. of the relevant devices, components, etc. Furthermore, explain the method to provide components for replacement.

- (3) Products whose performance as the intake air purifying system is degraded can be reused by cleansing.

[Certification Procedure]

Submit the following documents A and B, respectively. By the way, the test results of document A shall satisfy requirements a) and b).

A. Test results that verify that cleansing the air cleaner element can maintain the performance of the product as an intake air purifying system.

a) The test results shall verify that performance after cleansing is equivalent to that of a new product.

b) The test shall be conducted at a public test institution.

B. Explanatory documents on the whole recycling process.

- (4) For a product that must have its components replaced during the recycling process, the percentage weight of reused components to the total product weight per unit when the maximum number of components are replaced (theoretical value) shall be 95% or more.

[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) Plastic material used for packaging of products shall have no halogen-based elements added to the polymer structure as prescribed constituents. Product packaging refers to one sales unit.

[Certification Procedure]

Fill in the Attached Certificates whether or not any halogen-based elements are added to the polymer structure for plastic material used for packaging.

- (7) 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.

a. Contact address

b. The reuse of the products exerts an effect of reducing environmental burden

- c. The product which passed a recycling process has the same quality as a new product (dust filtering efficiency, loss of pressure, etc.)
- d. A rough measure to conduct cleaning (travel distance, degree of contamination, etc.).
- e. Implementing method of recycling process and operating instructions concerning devices, equipment and material, and components
- f. Description and coping process against dust and wastewater occurring in recycling process
- g. How to procure replacement components
- h. How to dispose of after the product is used.

[Certification Procedure]

Submit photos and design drawings with which the labeled content and labeled portions can be confirmed.

- (8) Technical guidance is given to users at the time of delivery or at the point of use so that reuse of the product is properly carried out.

[Certification Procedure]

Submit materials, etc. that describe a method for giving technical guidance to users. In addition, submit dispositions (specific measures) to prevent the product from being disposed of in a repeatedly usable state.

- (9) 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.

4-1-2. Material Criteria and Certification Procedure

[Criteria and certification procedure concerning plastics]

Basic items (10) through (12) shall be applied to plastic components of the product. However, small attachments (small components which are required for product functions) shall be excluded.

- (10) The product shall be labeled for easy recycling. Use symbols stipulated in Japanese Industrial Standard JIS K6899-1 or ISO 1043-1 to display the type of polymer and comply with JIS K6999 for the labeling system. By the way, for

products whose material must be labeled by other laws or regulations, the present provision may be substituted by the labeling. In addition, when multiple types of polymers are used, the types may be put down in such a manner as ">PE<, PP, PS" (in the event that three or more types of polymers are used, two materials are indicated like ">PE<, PP, etc." in the order of decreasing content and the third material and after may be omitted).

[Certification Procedure]

Submit photos and design drawings with which the labeled content and labeled portions can be confirmed.

- (11) Follow the positive list prescribed by the industry-level voluntary standard, etc. related to the applied product with respect to plastic additives such as plasticizer, color material, stabilizer, lubricant, and others which are used in the product. In the event that there is no applicable industry-level voluntary standard, it is acceptable to comply with the industry-level voluntary standard of similar products.

However, in the event that any plastic additives which are not mentioned in the positive list, it is acceptable that the additives satisfy the requirements of hazardous materials prescribed in ISO 8124-3 (corresponding standard: 88/378/EECEN71-3).

[Certification Procedure]

The business in charge of each production process shall submit a certificate that stabilizer, coloring agent, plasticizer, and other additives used for manufacturing the product comply with the positive list prescribed by the applicable industry group.

- (12) In the event that recycled plastic is used for a product, the product shall satisfy the requirements concerning 8 items of cadmium, lead, hexavalent chromium, arsenic, total mercury, PCB, benzene, and selenium of Attached Table 2 (Environmental Ministry Ordinance No. 29 dated December 26, 2002) provided in Enforcement Regulations of Soil Contamination Measures Law for chemical substances eluted from the whole product. However, in the product on which the dissolution test of 88/378/EEC EN-71 Part 3 is conducted and the test results are to be reported, there is no need to conduct tests on cadmium, lead, hexavalent chromium, arsenic, total mercury, and selenium repeatedly. (If recycled plastic is not used for a product, this item shall not apply.)

[Certification Procedure]

The test results that the product satisfies the requirements of relevant hazardous materials shall be submitted.

4-2. Quality Criteria

- (13) The quality of the applied air cleaner element for automobiles shall be equivalent to that of the existing air cleaner elements which are manufactured in compliance with Japanese Industrial Standard JIS D0117-1: 2005 (Road vehicles and internal combustion engines -- Filter vocabulary -- Part 1: Definitions of filters and filter components) and JIS D0117-2: 2005 (Road vehicles and internal combustion engines -- Filter vocabulary -- Part 2: Definitions of characteristics of filters and their components) as well as JIS D1612: 1989 (Test methods of air cleaners for automobiles) and which satisfy the required quality of automakers.

[Certification Procedure]

A certificate that verify that the product has a quality equivalent to existing Air Cleaner Elements for automobile with quality requirement of automobile manufacturers shall be submitted.

Established: August 20, 2006 (Version1.0)

Revised: August 21, 2008 (4-1.(5) 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 this Product Category are subject to revision as required.