Eco Mark Product Category No. 124

“ Glass Products Version2.0”
Certification Criteria (Draft)

—Applicable Scope—

A. Glass Bottles
B. Plate Glass
C. Safety Glass for Road and Railway Vehicles
D. Electrical glass
E. Glass for Physics and Chemistry and Medical Use
F. Glass Filaments

Established: May 1, 2007
Term of validity: April 30, 2012

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. 124

“ Glass Products Version2.0”

Certification Criteria

E. Glass for Physics and Chemistry and Medical Use

Japan Environment Association
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1. Applicable Scope

The present standard applies to glass for physics and chemistry as well as medical use.

“Glass Tubes” JIS R 3644
“Glass Rods” JIS R 3645
“Cover Glasses for Microscopes” JIS R 3702
“Slide Glasses for Microscope” JIS R 3703
“Glass Apparatus for Chemical Analysis” JIS R 3503
“Vials for Injection” JIS R 3521
“Glass Bottles for Drug” JIS R 3522
“Glass Syringes” JIS T 3201

2. Certification Criteria and Certification Procedure

For certification of compliance to each criterion item, submit the attached certificate.

2-1. Environmental Criteria and Certification Procedure

(1) The product shall contain 20% or more (by weight) glass cullet. However, this shall not apply to solar reflective glass.

[Certification procedure]
Enter the glass cullet content in the attached certificate and submit the certificate.

(2) Additives (coloring agents, etc.) used in the product shall not contain cadmium, lead, mercury, hexavalent chromium, arsenic, selenium, and their compounds as prescription constituents.

[Certification procedure]
Enter the use or no-use of the applicable substance in the attached certificate and submit the ingredient table issued by the manufacturing business of additives (coloring agents, etc.) or MSDS (safety data sheet of chemical substances, etc.).

(3) Safety of the product shall be verified and explained (elution of cadmium, lead, total mercury, hexavalent chromium, arsenic, and selenium). The elution of the relevant substance shall conform to the requirements of Attached Table 2 provided in Enforcement Regulations of Soil Contamination Countermeasures Law (MOE Ordinance No. 29 issued on December 26, 2002).

[Certification procedure]
Submit the test results by a third-party institution or by your company with respect to the elution of the relevant substance from the product.

(4) The production process shall conform to relevant environment regulations and agreements on preventing air pollution, water contamination, noise, vibration, odor and emission of hazardous materials.

[Certification procedure]
Submit a certificate issued by a director of the plant where the product is manufactured, stating that the environmental regulations in the region in which the glass manufacturing plant is located have been observed for past 5 years since the application and the plant has not violated any of the regulations, etc.

(5) Plastic materials used for product packaging shall not have halogen elements added to the polymer skeleton as prescription constituents.

[Certification procedure]
State in the attached certificate use or non-use of halogen elements added to the polymer skeleton for the plastic material used for packaging.

(6) It shall be stated in any medium such as product proper, operating instructions, catalogues, or Website, etc. that the borosilicate glass products are unable to be segregated and disposed of together with glass bottles, and how to properly dispose of after use must be stipulated.

[Certification procedure]
Submit the applicable portion (a copy may be acceptable) which stipulates the above information.
Statement example: “This product is unable to be segregated and disposed of together with glass bottles. When this is disposed of, discharge in accordance with the rules of each municipality.”

*Glass can be classified into soda-lime glass which is used for bottles, windowpanes, tableware, etc., flint glass which is used for high-class tableware, accessories, etc., borosilicate glass used for laboratory glass apparatus, medicine bottles, heat-resistant utensils of general household, etc., and it is unable to recycle by mixing these. In glass for physics, chemistry and medical use, borosilicate glass which has resistance to chemical erosion and thermal impact is generally used.

2-2. Quality Criteria and Certification Procedure

(7) The product quality shall conform to JIS standards.

[Certification procedure]
Submit test results (a copy of JIS-certified plant is acceptable) that evidence the conformance to the applicable JIS standards.

To be established on May 1, 2007 (Version 2.0)
To be expired on April 30, 2012

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