

EL655. Cleaning Device for Parts and Equipments

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1. Scope

The criteria shall apply to the wet cleaning device and the cleaning device using dry ice to clean parts or equipment in the industrial field (hereinafter referred to as the 'cleaner').

2. Definition

2.1

"Wet cleaning" refers to the cleaning method using water, semi-water, solvent liquefied detergent as a cleaning agent.

2.2

"Water cleaning agent" refers to the detergent with water and surfactants base or ozone, hydrogen, and oxygen electrolyte base.

2.3

"Semi-water cleaning agent" refers to the detergent with organic solvent, surfactants, and water base and that emulsify the organic solvent into lipophilic.

2.4

"Solvent cleaning agent" refers to the detergent with organic solvent base.

2.5

"Ozone depletion potential (ODP)" refers to the value of relative effect of ozone depletion materials compared to CFC-11, of which effect is arbitrarily defined as 1.0.

2.6

"Global Warming Potential (GWP)" refers to the value of relative effect of greenhouse gases compared to CO₂, of which effect is arbitrary defined as 1.0.

Note) GWP, the duration of 100 years, is applied according to the Second Assessment Report Climate Change (1995) of IPCC (International Panel on Climate Change) in the criteria.

3. Certification Criteria

3.1 Environmental Criteria

3.1.1

With respect to emission of hazardous substances during the use stage, the detergent contents shall not include the following substances.

3.1.1.1

In case that the cleaning agent not using substances that are classified as 'Group 1' and 'Group 2 (A)' by IARC (international agency for research on cancer).

3.1.1.2

The corresponding factor of ODP of organic solvent is over 0.003 and GWP is over 3000.

3.1.1.3

Aromatic solvent, halogenated solvent, and the following ethylene glycol ethers and ethylene glycol acetates.

	Substance	CAS No.
Ethylene Glycol Ether	Ethylene Glycol Monomethyl Ether	000109-86-4
	Ethylene Glycol Monoethyl Ether	000110-80-5
	Ethylene Glycol Monobutyl Ether	000123-86-4
Ethylene Glycol Acetate	Ethylene Glycol Monomethyl Acetate	000110-49-6
	Ethylene Glycol Monoethyl Ether Acetate	000111-15-9
	Ethylene Glycol Monobutyl Ether Acetate	000112-07-2

3.1.2

With respect to the consumption of resource and the release of waste materials in the using stage, in the case of the wet cleaning device, the wet cleaning device shall have a proper structure that can reuse the cleaning agents.

3.2 Quality Criteria

3.2.1

The quality and performance level of the product shall be proven to be acceptable in the concerned industry.

3.2.2

If Korean Industrial Standards are available as a national standard of the product in question, it should satisfy the quality or performance criteria of the standard in question. However, items related to “3.1 Environmental Criteria” are excluded.

3.2.3

If no Korean Industrial Standards are available as a national standard of the product in question, it should satisfy the quality and performance criteria according to the following sequence. However, the items related to “3.1 Environmental Criteria” are excluded. Also, if the E-Mark Certification Criteria Setting Committee determines that the applying criteria are not reasonable considering the characteristic of the product, it should satisfy the standards that were modified by the committee (test item, test method, standards, etc.).

3.2.3.1

National standards other than Korean Industrial Standards.

3.2.3.2

Overseas national standards or international standards regarding the product quality in question.

3.2.3.3

Standards of the organizations at home and abroad that are referred by the current E-mark target product and certification standard.

3.2.3.4

A private standard that is recognized as higher than the national standard in the industry of the product in question.

3.3 Consumer Information

Indication of matters contributing to reasons (Reduced emission of wastes and pollutants) for the certification of the concerned product at the stage of consumption

4. Test Methods

Certification Criteria		Test and Verification Methods
Environmental Criteria		Verification of submitted documents
Quality Criteria	3.2.1	Verification of submitted documents
	3.2.2 ~ 3.2.3	Test report by an accredited testing laboratory in accordance with the relevant standards or the equivalent certificate
Consumer Information		Verification of submitted documents

4.1 General Matters

4.1.1

One test sample shall be required for each applied product. Only if more than one test sample is needed, the former requirement may not be met.

4.1.2

Test samples shall be collected at random by a certification institute from products in market or those in storage at the production site.

4.1.3

The result of test shall be numerically set according to KS Q 5002 (Statistical interpretation method of the data – Part 1: Statistical description of the data).

5. Reasons for Certification

“Reduced emission of wastes and pollutants”

Common Criteria, Notice No. 2012-36, the Ministry of Environment

1. Eco-label products must follow the following provisions with regard to the proper treatment of environmental pollution substances, such as air and water wastes and noxious chemical substances emitted in the process of manufacturing or service operation.

A. When first applying for certification, the product manufacturer should observe the environment related laws and agreements pertaining to the region where the production factory or the place of service operation is located for a period of one year prior to the date of application. Any case of violation of the penalty clause will be verified by confirming documents involved during a period of one year to the date of application. Regarding any violation not related to the penalty clause, confirmation will be made on the completion of appropriate measures.

B. A person who has received a certification of eco-labeling shall observe the environment related laws and agreements pertaining to the region where the production factory or the place of service operation is located during the period of certification. However, regarding any violation besides a penalty, confirmation will be made on the completion of appropriate measures.

2. As a general rule, information for consumers shall be indicated on the surface of the product in such a way not to be easily erased. However, in case that indication on the surface of the product is impossible or undesirable, it can be indicated on the appropriate part such as product packaging, product guidebook and user's manual that consumers can recognize. However, the service information should be indicated inside and outside of the place of service operation. In case that indication inside and outside of the place of service operation is impossible or undesirable, it can be indicated on the appropriate part such as an agreement, letter of delivery, letter of guarantee, and PR materials that consumers can recognize.

3. In order to establish fair trade and to protect consumer, the applicant for eco-label and the holder of eco-label license shall observe the Act on the Fairness of

Indication and Advertisement with respect to the environmental aspects of the product.

4. For Various standards referred in the certification criteria by target product, the latest revised edition applies at the date of application, if not specified otherwise.

5. In applying the quality related criteria for each target product, if no standard is available that can be applied as the quality criteria, the president of Korea Environmental Industry & Technology Institute (KEITI) (hereafter referred to as "president of KEITI") may establish and operate the quality criteria for the product involved after review by a competent committee.