

EL607. Water Treatment Agents

[EL607-2002/1/2002-219]



1. Scope

The criteria shall apply to the water treatment agent specified in Drinking Water Control Act.

2. Definitions

“Water treatment agent” refers to the manufactured material that is added in order to purify or sterilize water in natural state or to prevent drinking water providing facility from being oxidized.

3. Certification

3.1 Environmental Criteria

3.1.1

With respect to the inorganic substance affecting harmfully to health that is added to drinking water by using the product, the product shall satisfy the following requirements.

Substances	Requirement [mg/L]	Substances	Requirement [mg/L]
lead (Pb)	≤0.005	boron (B)	≤0.1
arsenic (As)	≤0.001	nickel (Ni)	≤0.001
selenium (Se)	≤0.001	antimony (Sb)	≤0.0002
mercury (Hg)	≤0.00005	molybdenum (Mo)	≤0.007
cyanide (CN)	≤0.001	uranium (U)	≤0.0002
hexavalent Chromium (Cr ⁶⁺)	≤0.05	barium (Ba)	≤0.007
nitrate (NO ₃ -N) and nitrite nitrogen (NO ₂ -N)	≤1.0	silver (Ag)	≤0.01
cadmium (Cd)	≤0.001		

3.1.2

With respect to the organic substance affecting harmfully to health that is added to drinking water by using the product, the product shall satisfy the following requirements.

Item	Requirements [mg/L]
phenols	≤ 0.005
1,1,1-trichloroethane	≤0.03
perchloroethylene	≤0.001
trichloroethylene	≤0.003
dichloromethane	≤0.002
benzene	≤0.001
1,1-dichloroethylene	≤0.002
carbon tetrachloride	≤0.0002
1,2-dichloroethane	≤0.0004
cis-1,2-dichloroethylene	≤0.004
1,1,2-trichloroethane	≤0.0006
acrylamide monomer	≤0.00005

3.1.3

With respect to the disinfectant added to drinking water by using the product, the product shall satisfy the following requirements.

Item	Requirements [mg/L]
chlorine dioxide	≤ 2.0
hypochlorite ion	≤ 0.2

3.1.4

With respect to the aesthetic affecting material added to drinking water by using the product, the product shall satisfy the following requirements.

Item	Requirements [mg/L]	Item	Requirements [mg/L]
Consumption of potassium permanganate (KMnO ₄)	≤ 1.0	copper (Cu)	≤ 0.1
Taste and odor	Shall be none	zinc (Zn)	≤ 0.1
Color	≤ 0.5 degree	iron (Fe)	≤ 0.03
anionic surfactants (ABS)	≤ 0.02	manganese (Mn)	≤ 0.005

3.2 Quality Criteria

The quality of product shall satisfy the criteria, standard and indication criteria of water treatment agent in accordance with drinking Water Control Act or the certification criteria of self-criteria and self-standard of water treatment agent and so on (water treatment and drinking water).

3.3 Information for Consumers

3.3.1

Indication on the items that the product contributes to the reasons for certification (securing safety of drinking water and reduction of harmful substance) during its consumption stage

3.3.2

Appropriate usage and proper indication satisfying the criteria, 'standard and indication criteria of water treatment agent' in accordance with Drinking Water Control Act

4. Test Methods

Certification Criteria	Test and Verification Methods
Environmental Criteria	Test report by an accredited testing laboratory in accordance with JWVA Z 109 (test methods of evaluating chemicals for water), the standard of Japan Water Association
Quality Criteria	Test report by an accredited testing laboratory in accordance with the following requirements or certificate of equivalent <ul style="list-style-type: none">• Criteria, standard and indication criteria of water treatment agent or• Certification criteria of self-criteria and self-standard of water treatment agent and so on (water treatment agent and drinking water)
Consumer Information	Verification of submitted documents

4.1 General Matters

4.1.1

One test sample shall be required for each applied product. However, 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), when testing the basis weight.

5. Reasons for Certification

“Contributing to water safety, lowest-possible use of harmful substances”

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.