

EL264. Sprinkler head for fire fighting

[EL264-2006/1/2006-97]



1. Scope

The criteria shall apply to a closed sprinkler head (hereafter referred to as a “sprinkler head”) installed in a building and used in a fire.

2. Definition

2.1

“Closed sprinkler head” refers to a sprinkler head that an outlet is blocked by a thermo sensitive element in normal state.

2.2

“Thermo-sensitive element” refers to a part which is destroyed and dissolved by heat in the certain temperatures by itself and break away from a sprinkler head to jet water, while it blocks an outlet of products in normal state.

3. Certification Criteria

3.1 Environmental Criteria

3.1.1

With respect to use of chemicals in the manufacturing process and discharge of hazardous articles in the disposal process, lead and lead alloy shall not be used as the constituent materials of a thermo-sensitive element.

3.1.2

With respect to recyclibility in the disposal process, the lead content of copper alloy shall be 2weight% or less as a material of sprinkler head.

3.2 Quality Criteria:

The product shall be suited to the standards for formal approval and authorized technique of machine and machinery for firefighting according to 「Act on installation and maintenance of fire fighting facility and safety management」.

3.3 Consumer Information:

Indication that the product contributes to certificated reasons (Reduced harmful substances, Readily recyclable).

4. Test Methods

Certification Criteria		Method of Test and Verification
Environmental Criteria	3.1	Verification of submitted documents
	3.2	Test report by the accredited institution according to KS D 1895(Copper and copper alloys-Determination of lead) ^{note)}
Quality Criteria	3.3	Test report by the accredited institution or a certificate according to 「formal approval of a sprinkler head and standard for authorized technique」 or an equivalent certificate or higher
Consumer Information		Verification of submitted documents

Note) 'EL741. In case of using the materials certificated as eco labels of Copper alloys for tempering' or 'EL742. Copper alloys for castings', it shall be regarded to be suitable for this criteria.

4.1 General Matters

4.1.1

One test sample is required for each applied product

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

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

5. Reason for certification

“Reduced harmful substances, Readily recyclable”

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.