


<div></div> <div>Green Mark</div>	<div>Water Dispensers</div>	No. 87
		Category No. J-05
<div>1. Scope</div> <div>This standard applies to water dispensers (“product”) which meet the definition of <i>CNS 13516</i>.</div> <div>2. Product types</div> <div>This standard covers the following types of products:</div> <div>(1) Chilled-warm-hot water dispensers: products which dispense chilled, warm and hot water.</div> <div>(2) Warm-hot water fountains: products which only dispense warm and hot water.</div> <div>3. Terms and definitions</div> <div>For this standard, the following terms and definitions shall apply.</div> <div>Disassemblability: Refer to the requirement of Designed for Disassembly in Section 7.4 of <i>CNS 14021 Environmental labels and declarations -- Self-declared environmental claims (Type II environmental labelling)</i>, the term “disassemblability” means the product with parts and components of different materials can be disassembled and separated using regular tools (such as a screwdriver) during the product’s end-of-life treatment process.</div> <div>4. Product characteristics</div> <div>4.1 The product’s energy efficiency shall meet the <i>Energy Efficiency and Labeling Requirements for Chilled-Warm-Hot Water Dispensers</i>, or the <i>Energy Efficiency and Labeling Requirements for Warm-Hot Water Dispensers</i> of the Energy Labeling Program, Bureau of Energy, Ministry of Economic Affairs.</div> <div>4.2 The product shall be disassemblable.</div> <div>5. Materials, accessories and components</div> <div>5.1 The product’s plastic parts weighing more than 25 g shall meet the following requirements:</div> <div>(1) content of cadmium, lead, hexavalent chromium and mercury shall be below the regulatory limit; if recycled materials are used in the parts or safety considerations require the addition of glass fiber to the parts, the parts’ lead content shall be less than 20 mg/kg.</div> <div>(2) content of the following flame-retardants shall be below the regulatory limit:</div> <div>(a) Polybromobiphenyls (PBBs);</div> <div>(b) Polybromodiphenyl ethers (PBDEs): Include bromodiphenyl ether, dibromodiphenyl ether, tribromodiphenyl ethers, tetrabromodiphenyl ether, pentabromodiphenyl ethers, hexabromodiphenyl ethers, heptabromodiphenyl ethers, octabromodiphenyl ether, nonabromodiphenyl ether, and decabromodiphenyl ether; and</div> <div>(c) Chloroparaffins with 10-13 carbon atoms per molecule and chlorine content of greater than 50% by weight.</div>		
<div>Date of Promulgation:</div> <div>December 30, 2004</div>	<div>Ministry of Environment</div>	<div>Date of Latest Revision:</div> <div>Feb. 13, 2019</div>

5.2 Product's plastic materials which are in contact with water shall meet the following requirements:

- (1) content of triphenyltin (TPT) and tributyltin (TBT) shall be below the regulatory limit.
- (2) content of phthalate ester plasticizer shall be below the regulatory limit. The regulated phthalate ester plasticizers include di(2-ethylhexyl)phthalate (DEHP), di-n-octyl phthalate (DNOP), dimethyl phthalate (DMP), dibutyl phthalate (DBP), benzyl butyl phthalate (BBP), di-isononyl phthalate (DINP), di-isodecyl phthalate (DIDP), and diethyl phthalate (DEP).

5.3 The product's plastic components weighing more than 25 g shall meet the requirements of ISO 11469 in labelling composition code in prominent areas.

5.4 The thermal insulation material for the product's hot water and cold water storage tank shall be non-combustible material.

6. Test methods and regulatory limits

This standard stipulates the following regulated substances and regulatory limits:

Applicable Part	Regulated Substance	Regulatory Limit	Referenced Test Method
Plastic	cadmium	< 2 mg/kg*	NIEA M353 US EPA 3051A US EPA 3050B
Plastic	lead	< 2 mg/kg	NIEA M353 US EPA 3051A US EPA 3050B
Plastic	hexavalent chromium Cadmium	< 3 mg/kg	NIEA T303 US EPA 3060A US EPA 7196A
Plastic	mercury	< 2 mg/kg*	NIEA M317 NIEA M318 US EPA 7471B US EPA 7473
Plastic	polybromobiphenyls (PBBs)	< 10 mg/kg*	US EPA 3540C US EPA 8081A US EPA 8082A US EPA 8270D
Plastic	Polybromodiphenyl ethers (PBDEs)	< 10 mg/kg*	US EPA 3540C US EPA 8081A US EPA 8082A US EPA 8270D
Plastic	chloroparaffins with 10-13 carbon atoms per molecule	< 10 mg/kg	US EPA 3540C US EPA 8081A US EPA 8082A US EPA 8270D
Plastic	triphenyltin	< 2 mg/kg	NIEA T504 CNS 13105
Plastic	tributyltin	< 2 mg/kg	NIEA T504 CNS 13105
Plastic	phthalate ester plasticizer	< 10 mg/kg*	NIEA T801 NIEA M731 US EPA 3550C CNS 15138-1 EN 14582

*: The test report shall provide evidence that the employed test methods have detection limits of less

than 1/3 of the regulatory limits.

7. Labeling

7.1 The name, address and consumer hotline of the Green Mark user shall be clearly printed on the product or packaging.

7.2 The product or packaging shall bear a label reading “Energy Saving” and “Low Pollution”.

Revision History:

First revision: September 26, 2013

Second revision: February 13, 2019