

Unofficial Translation

**THAI INDUSTRIAL STANDARD
FOR
SHOWERS : ENVIRONMENT REQUIREMENTS ; WATER-SAVINGS
TIS 2066-2544(2001)**

1. Scope

- 1.1 This standard specifies the details of showers, especially the environmental requirements in the aspect of water saving, which having discharged water volume not exceeding 9 dm³ per minute at the pressure of 0.10 Mpa.
- 1.2 This standard covers only showers in accordance with TIS 1187 in style and dimension.

2. Definitions

For the purpose of this standard, the following definition apply :

- 2.1 Bath shower; which shall be referred to hereinafter as “ shower”, means an equipment used with taps for bath tap, taps for shower or instantaneous water heater to scatter the water.

3. Requirements

3.1 Leakage

After test in accordance with TIS 1187, the leakage shall not occur at the joint and at the connection between shower and handle of shower.

3.2 Water discharging rate

After test in accordance with TIS 1187, the water flowing through the shower shall not exceed 9 dm³ per minute.

3.3 Scatter of water

After test in accordance with TIS 1187, the water flowing through the shower at the height of 1,800 mm. shall scatter on the floor by the width not exceeding 600 mm.

4. Packaging

- 4.1 Showers shall be packed in the suitable boxes, packages or containers, which shall provide protection for showers against damage during transportation and storage.

5. Mark and Label

- 5.1 Each shower shall at least bear number, letter or mark indicating legibly, clearly and permanently the following information:
 - (1) Name of manufacturer or factory or registered trade mark.

- 5.2 Each shower packaging shall at least bear number, letter or mark indicating legibly and clearly the following information:
- (1) Name of product;
 - (2) Style;
 - (3) Maximum discharged water volume per minute at the pressure of 0.10 Mpa.;
 - (4) Model;
 - (5) Year, month of manufactured or lot code;
 - (6) Name of manufacturer or factory or registered trade mark.
- 5.3 If foreign language is used, the meaning shall correspond to that in Thai.

6. Sampling and criteria for conformity

- 6.1 Sampling and criteria for conformity shall comply with annex A.

Annex A
Sampling and criteria for conformity
(Clause 6.1)

- A.1 Lot means showers of the same style and model, manufactured from the same material and procedure at the same period of time and belonging to the same group in any single delivery or purchasing.
- A.2 Sampling and acceptance shall comply with the following sampling plan or other technically equivalent sampling plan.
- A.2.1 Sampling and acceptance for testing on mark and label.
- A.2.1.1 Samples shall be randomly taken from products of the same lot. The sample size shall be as specified in Table A.1
- A.2.1.2 Provided the samples non-complying with clause 5 do not exceed acceptance number as specified in Table A.1, the lot shall be deemed to meet the requirement.

Table A.1 Sampling plan for testing on mark and label
(Clause A.2.1)

Lot size (unit)	Sample size (unit)	Acceptance number
3 200 or less	2	0
3 201 to 10 000	8	1
Over 10 000	13	2

- A.2.2 Sampling and acceptance for testing leakage, water discharging rate and scatter of water.
- A.2.2.1 Two samples shall be randomly taken from products of the same lot or from the samples, that have been tested in accordance with clause A.2.1., then to carry out the testing of leakage, water discharging rate and scatter of water respectively.
- A.2.2.2 Provided all the two samples comply with all the requirements of the clauses 3.1, 3.2 and 3.3, the lot shall be deemed to meet the requirement.
- A.3 Criteria for conformity
- Provided the samples meet all requirements of clauses A.2.1.2 and A.2.2.2, the lot shall be deemed to comply with this standard.
-