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*Indian Standard*  
SPECIFICATION FOR  
TRANSPARENT TOILET SOAP

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**INDIAN STANDARDS INSTITUTION**  
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG  
NEW DELHI 110002

# *Indian Standard*

## SPECIFICATION FOR TRANSPARENT TOILET SOAP

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# *Indian Standard*

## SPECIFICATION FOR TRANSPARENT TOILET SOAP

### 0. FOREWORD

**0.1** This Indian Standard was adopted by the Indian Standards Institution on 15 October 1985, after the draft finalized by the Soaps and Other Surface Active Agents Sectional Committee had been approved by the Chemical Division Council.

**0.2** Specification for transparent soap was first covered in IS : 839-1956\*. Subsequently, while revising specification for toilet soaps ( IS : 2888† ), the committee decided to merge both these specifications and accordingly IS : 2888-1964‡ was issued having two types, namely, toilet soap and transparent toilet soap.

**0.2.1** In the subsequent revision of IS : 2888† in 1983, the committee decided to delete the transparent toilet soap in view of its meagre production.

**0.3** However, the situation has changed in the preceding years, and the committee has once again decided to take up this subject keeping in view the increase in the production of transparent toilet soap and its consumption, both in the local market and the overseas markets.

**0.4** For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960‡. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

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### 1. SCOPE

**1.1** This standard prescribes requirements and the methods of sampling and test for transparent toilet soap.

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\*Specification for transparent toilet soap (*withdrawn*).

†Specification for toilet soaps (*first revision*).

‡Rules for rounding off numerical values (*revised*).

## 2. TERMINOLOGY

**2.1** For the purpose of this standard, the definitions given under 2 of IS : 286-1978\* shall apply.

## 3. REQUIREMENTS

**3.1 Description** — Transparent toilet soap shall be a saponified soap of firm and smooth texture. It shall be transparent, perfumed and shall possess good cleaning and lathering properties.

**3.2 Ingredients** — In addition to perfume and moisture, transparent toilet soap may contain colouring matter, preservatives, glycerine, sugar and such additional substances. All these materials shall be non-injurious when used in soap.

**3.3** Transparent toilet soap shall also comply with the requirements specified in Table 1.

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**TABLE 1 REQUIREMENTS FOR TRANSPARENT SOAP**

( Clauses 3.3 and 6.1 )

SL No.	CHARACTERISTIC	REQUIREMENT	METHOD OF TEST ( REF TO CL NO. IN IS : 286-1978* )
(1)	(2)	(3)	(4)
i)	Total fatty matter, percent by mass, <i>Min</i>	60	15
ii)	Rosin acids, percent by mass of total fatty matter, <i>Max</i>	20	14
iii)	Unsaponified fatty matter, percent by mass, <i>Max</i>	0.5	13
iv)	Free caustic alkali ( as NaOH ), percent by mass, <i>Max</i>	0.05	6.2
v)	Transparency	To pass the test	Appendix A

\*Methods of sampling and test for soaps ( *second revision* ).

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## 4. PACKING AND MARKING

**4.1 Packing** — The soap shall be in the form of cakes and shall be suitably packed as agreed to between the purchaser and the supplier.

\*Methods of sampling and test for soaps ( *second revision* ).

**4.2 Marking** — The packages shall be securely closed and marked with the following:

- a) Name of the manufacturer;
- b) Brand name of the material and recognized trade-mark, if any;
- c) Net mass ( 100 g ) when packed;
- d) Batch number or lot number in code or otherwise; and
- e) Month and year of manufacture.

**4.2.1** The packages may also be marked with the ISI Certification Mark.

**NOTE** — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution ( Certification Marks ) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

## 5. SAMPLING

**5.1** General precautions in sampling, scale of sampling and preparation of test samples shall be as prescribed in 3.1, 3.2 and 3.3 respectively of IS : 286-1978\*.

### 5.2 Number of Tests

**5.2.1** Tests for the determination of total fatty matter, total alkali and unsaponified fatty matter shall be conducted on each of the individual samples separately.

**5.2.2** Tests for determination of remaining characteristics specified in Table 1 shall be conducted on the composite sample.

### 5.3 Criteria for Conformity

**5.3.1 For Individual Samples** — For each of the characteristics which has been determined on the individual samples ( see 5.2.1 ) the mean (  $\bar{X}$  ) and the range (  $R$  ) of the test results shall be calculated as follows:

$$\text{Mean ( } \bar{X} \text{ )} = \frac{\text{Sum of test results}}{\text{Number of test results}}$$

Range (  $R$  ) = The difference between the maximum and the minimum value of the test results.

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\*Methods of sampling and test for soaps ( second revision ).

**5.3.1.1** The lot shall be deemed as conforming to the requirements given in **5.2.1** if the value of the expression  $(\bar{X} - 0.6 R)$  is greater than or equal to minimum value given in Table 1 and  $(\bar{X} + 0.6 R)$  is less than or equal to maximum value in Table 1.

**5.3.2 For Composite Sample** — For declaring the conformity of the lot to the requirements of other characteristics determined on the composite sample, the test results for each of the characteristics shall satisfy the relevant requirement.

## 6. TESTS

**6.1** Tests to evaluate the characteristics specified in Table 1 shall be conducted as prescribed in IS : 286-1978\*. Reference to the relevant clauses of that standard are given in col 4 of Table 1.

**6.2 Quality of Reagents** — Unless specified otherwise, pure chemicals and distilled water ( *see* IS : 1070-1977† ) shall be employed in the tests.

NOTE — 'Pure chemicals' shall mean chemicals that do not contain impurities which affect the results of analysis.

## APPENDIX A

[ Table 1, Item (v) ]

### METHOD OF TEST FOR TRANSPARENCY

#### A-1. TRANSPARENCY

**A-1.1 Procedure** — When a tablet is held against a fluorescent light it should be possible to read the stamping on the side opposite to the viewer.

\*Methods of sampling and test for soaps ( *second revision* ).

†Specification for water for general laboratory use ( *second revision* ).

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**AMENDMENT NO. 1    MAY 1992**

**TO**

**IS 11303:1985 SPECIFICATION FOR  
TRANSPARENT TOILET SOAP**

(Page 3, Foreword, clause 0.3)- Add the following after clause 0.3 and renumber the subsequent clause:

'0.4 A scheme for labelling environment friendly products to be known as ECO Mark is being introduced at the instance of the Ministry of Environment and Forests (MEF). The ECO Mark shall be administered by the Bureau of Indian Standards (BIS) under the BIS Act, 1986 as per the Resolution No. 71 dated 20 February 1991 published in the Gazette of the Government of India. For a product to be eligible for ECO Mark it shall also carry the standard mark of BIS for quality besides meeting additional optional environment friendly (EF) requirements. The EF requirements for transparent toilet soap are, therefore, being included through Amendment No.1 to this standard.

A proposal to incorporate some more EF requirements in phases is also under consideration and would be included in due course.'

(Page 4, clause 3.3) - Add the following after 3.3:

**'3.4 Optional Requirements for ECO Mark**

**3.4.1 General Requirements**

3.4.1.1 The product shall conform to the requirements for quality, safety and performance prescribed under clauses 3.1 to 3.3.

3.4.1.2 The manufacturers shall produce to BIS environmental consent clearance from the concerned State Pollution Control Board as per the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 along with the authorization, if required under the Environment (Protection) Act, 1986, while applying for ECO

### 3.4.2 Specific Requirements

3.4.2.1 The material shall neither contain any synthetic detergent when tested as per the method given in Annex B and C of IS 4955:1982\* nor any phosphate when tested as per the method prescribed in 20 of IS 286:1978+.

3.4.2.2 The material shall pass the test for dermatological safety when evaluated as per the method prescribed in IS 13424:1992#'

(Page 4, clause 4.1) - Add the following after 4.1:

' 4.1.1 For ECO Mark the product shall be packed in such packages which are made from recyclable/reusable or biodegradable materials and declared by the manufacturer and may be accompanied with detailed instructions for proper use.'

(Page 5, clause 4.2) - Add the following after 4.2 (e):

'(f) List of identified critical ingredients in descending order of quantity, percent by mass for ECO Mark,

(g) The criteria for which the product has been labelled as ECO Mark'

- 
- \* Specification for household laundry detergent powders (second revision)
  - + Methods of sampling and test for soaps (second revision)
  - # Methods of test for safety evaluation of bathing bars and toilet soaps.

(CHD 025)

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Reprography Unit, BIS, New Delhi, India

**AMENDMENT NO. 2 MAY 1994  
TO  
IS 11303 : 1985 SPECIFICATION FOR  
TRANSPARENT TOILET SOAP**

[ *Page 2, Amendment No. 1, clause 4.2 (f)* ] — Substitute the following for the existing clause:

**‘4.2 (f)** The following identified critical ingredients in descending order of quantity, percent by mass, for ECO Mark:

- i) Total fatty matter (TFM), and
- ii) Water insoluble matter.’

( CHD 25 )

**AMENDMENT NO. 3   APRIL 2002**  
**TO**  
**IS 11303 : 1985   SPECIFICATION FOR TRANSPARENT**  
**TOILET SOAP**

[*Page 5, clause 4.2(g) (see also Amendments No. 1 and 2 )*] — Insert the following after **4.2(f)**:

- 'h) Critical ingredients mentioning the actual compound in descending order up to a limit of 0.5 percent by mass, as identified under ECO-Mark Scheme.'

(CHD 25)

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Reprography Unit, BIS, New Delhi, India