

DRAFT TANZANIA STANDARD

**TBS/CDC-2(4969) P3 Soft Soap –Specification
(Revision of TZS 222:1984)**

For Public Comment Only

TANZANIA BUREAU OF STANDARDS

Foreword

This Draft Tanzania Standard is being developed by the Soap and Detergents Technical Committee under supervision of the Chemicals Division Standards Committee and it is in accordance with the procedures of the Bureau.

This Draft Tanzania Standard is the first revision of TZS 222:1984 “Soft Soap – Specification”.

After being finalized, this second edition will cancel and replace the first edition.

In the preparation of this Draft Tanzania Standard assistance was drawn from;

IS 7532: 2011 *Specification for soft soap*; Prepared by the Indian Standards Institutes and

BS 1913: 2016 *Specification for soft soap*; Prepared by British Standards Institute

In reporting the results of analysis of a test if the final value is to be rounded off, it shall be done in accordance with TZS 4 *Rounding off numerical values*

Soft - Soap –Specification

1 Scope

This Draft Tanzania Standards prescribes requirements, method of sampling and tests for soft soap intended for hygiene purpose.

2 Normative references

The following referenced documents are indispensable for the application of this document. The latest edition of the referenced document (including any amendments) applies.

TZS 35 Soaps - Sampling and test methods

TZS 59 Water for analytical laboratory use – Specification and test method

EAS 794 Determination of the microbial inhibition of cosmetic soap bars and liquid hand and body washes — Test method

TZS 1396-9/ISO 1067 Analysis of Soaps – Determination of unsaponifiable, saponified and unsaponified saponifiable matter

TZS 1396-12/ISO 684 Analysis of Soaps – Determination of total free alkali

TZS 1396-5 Analysis of Soaps – Part 5 Determination of free fatty acids

TZS 1396-6/ISO 685 Analysis of Soaps- Determination of total alkali content and total fatty matter content

3 Terms and Definitions

For the purpose of this standard the following definitions and definitions given under clause 3 of TZS 35 shall apply.

3.1 Batch

soap manufactured from one boil or, in the case of continuous production processes, the material from a single day's production

3.2 Boil

soap from one pan or vat

3.3 Defective

soap or its container or wrapper that fails in one or more respects to comply with the appropriate requirements of the standard

3.4 Lot

quantity of soap bearing the same batch identification and from one manufacturer, submitted at any one time for inspection and testing

4 Types

Soft soap shall be of the following two types;

a) Type 1 and

b) Type 2

5 Requirements

5.1 General requirements

5.1.1 Soft soap shall be homogeneous translucent mass of jelly-like mixture, free from putrescent, fishy or objectionable odour. It applies to soft soap with potassium or sodium base or mixture of these bases. It may or may not be suitably perfumed subject to agreements between manufacturer and purchaser.

Note:

Soft soap shall be considered as showing no sign of deterioration if it still conforms to 5.1.1

5.1.2 Soft soap shall quickly form a satisfactory lather while in use

5.1.3 Soft soap shall not become liquid at 32°C, and no liquid shall separate when the soap is maintained at 0°C, for 24 hours.

5.1.4 If the Soft soap is antibacterial, it shall pass antibacterial activity test when tested against EAS 794.

5.2 Specific requirement

Soft soap shall comply with requirements given in Table 1 when tested according to the test method referred therein

Table 1- Requirements for soft soap

S/no.	Characteristics	Requirements		Method of test
		Type 1	Type 2	
1	Total fatty matter % by mass, min.	38	28	TZS 1396-6/ISO 685
2	Unsaponified and unsaponifiable % by mass max.	2.5	2.0	TZS 1396-9/ISO 1067
3	Rosin acids, % by mass of total fatty matter max.	Nil	15	TZS 35
4	Total free alkali (as K ₂ O) % by mass, max.	0.5	0.5	TZS 1396-12/ISO 684
5	Free caustic alkali (as K ₂ O) % by mass, max.	0.1	0.1	TZS 1396-5

Calculation of results
Soft soap is liable to loss moisture on keeping. The result obtained from unsaponified and unsaponifiable matter, total free alkali and free caustic alkali by the specific method of analysis shall be recalculated in relation to the equation.

$$\text{Recalculated results} = \frac{\text{Actual result} \times \text{minimum specified total fatty matter}}{\text{Actual total fatty matter}}$$

6 Sampling

6.1 For this purpose, general precautions, scale of sampling and preparation of test samples shall be as prescribed in 4.1, 4.2 and 4.3 respectively in TZS 35

6.2 Number of tests

- 6.2.1** Tests for the determination of characteristics given as total fatty matter, unsaponified and unsaponifiable and free alkali shall be conducted on each of the individual sample separately
- 6.2.2** Tests for the determination of the remaining characteristics shall be conducted in the composite sample.

6.3 Criteria for conformity

- 6.3.1** *Individual sample* – For each of characteristic have been determined on the individual samples (6.2.1) the mean (\bar{x}) and the range (R) of the test results shall be calculated as follows

$$\text{Mean } (\bar{X}) = \frac{\text{the sum of test results}}{\text{number of the test result}}$$

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

The lot shall be deemed as conforming to the requirement if the express $(\bar{X}-0.4R)$ is greater than or equal to the minimum value given in Table 1 and $(\bar{X}+0.4R)$ is less than or equal to the minimum value given in Table 1

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

7 Tests

7.1 Test shall be conducted as prescribed in TZS 35. Reference to relevant clause of that standard is given in the Table 1.

7.2 Quality reagents

Unless otherwise specified, chemicals of analytical grade or distilled water complying with TZS 59 shall be employed.

8 Packaging and Labeling

8.1 Packing

The soft soap shall be packed in suitable container as agreed to between manufacturer and purchaser.

8.2 Labeling

The packages shall be securely closed, legibly and indelibly labeled in Kiswahili and English, and any other language as agreed between the manufacturer and supplier with the following information:

- a) Name and physical address of manufacturer.
- b) Registered trade mark if any.
- c) The word "soft soap".
- d) Net weight when packed.
- e) Dates of manufacture and expiry.
- f) Batch No. or Lot No. in code or otherwise.
- g) Type.
- h) Critical ingredients mentioning the actual compound in descending order up to a limit of 0.5 % by mass.