



For Safety and Quality Assurance

Draft Zambian Standard

HAIR OILS - Specification

DRAFT STANDARD FOR PUBLIC COMMENT ONLY

ZAMBIA BUREAU OF STANDARDS

Amendments issued since publications		
Amdt No.	Date	Text affected

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DATE OF PUBLICATION

This Zambian Standard has been published under the authority of the Bureau on 1990-03-31.

ZAMBIA BUREAU OF STANDARDS

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A Zambian Standard does not purport to include all the necessary provisions of a contract. Users of Zambian Standards are responsible for their correct application.

TECHNICAL COMMITTEE RESPONSIBLE

The preparation of this Zambian Standard was undertaken by Cosmetics and Hygienic products Technical Committee (CHD/1) on which the following organization were represented:

Zambia Association of Consumers
Competition and Consumer Protection Commission
Zambia Compulsory Standards Agency
Zambia Bureau of Standards

ZAMBIA BUREAU OF STANDARDS, P.O. BOX 50259, LUSAKA

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FOREWORD

This Zambian Standard has been prepared by the Cosmetic and Hygienic Products Technical Committee (4/3) in accordance with the procedures of the Bureau.

In the preparation of this standard consideration was made to the current practices in the country, and considerable assistance was obtained from the following publication:

**COMPLIANCE WITH A ZAMBIAN STANDARD DOES NOT OF ITSELF CONFER
IMMUNITY FROM LEGAL OBLIFATIONS**

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HAIR OILS - Specification

1. SCOPE

1.1 This Zambian Standard prescribes requirements for hair oils and other oil-based emulsion preparations for the hair. The latter include hair tonics and hair oil concentrates.

1.2 This Standard does not cover hair oils, brilliantine's, pomades and preparations sold under the name of hair darkeners. It also does not cover hair oils which contain ingredients that have an effect on the physiological functions of the body or scalp or the hair, or for which medical (therapeutical) claims are made.

2. NORMATIVE REFERENCES

The following publications have been referred to in this standard:

ZS 185 *Methods of sampling and test for hair oils.*

ZS 179 *Method for Dermatological tests for Cosmetic industry.*

ZS 185- 2, *Cosmetics — Analytical methods — Part 2: Determination of Moisture Content*

ZS 185- 13, *Cosmetics — Analytical methods — Part 13: Determination of rancidity*

ZS 185-16, *Cosmetics — Analytical methods test — Part 16: Determination of Heavy metal Content*

ZS 185-17, *Cosmetics — Analytical methods — Part 17: Physio-chemical tests*

ZS 185-18, *Cosmetics — Analytical methods — Part 18: Determination of thermal stability*

ZS 954 (all parts), *Cosmetics and cosmetic products*

ISO 3960, *Animal and vegetable fats and oils -- Determination of peroxide value -- Iodometric (visual) endpoint determination*

ISO 18416, *Cosmetics — Microbiology — Detection of candida albicans*

ISO 21148, *Cosmetics — Microbiology — General instructions for microbiological examination* ISO 21149, *Cosmetics --*

Microbiology -- Enumeration and detection of aerobic mesophilic bacteria ISO 22717, *Cosmetics — Microbiology — Detection of Pseudomonas aeruginosa*

ISO 22718, *Cosmetics — Microbiology — Detection of Staphylococcus aureus*

ISO 22716, *Cosmetics — Good Manufacturing Practices (GMP) — Guidelines on Good Manufacturing Practices*

3. TYPES

There shall be three types of hair oils, namely:

- a) Type 1. based on vegetable oil or oils;
- b) Type 2. based on mineral oils
- c) Type 3 based on mixture of vegetable oil(s) and mineral oil.
- d) Type 4 based on seed oils

4. REQUIREMENTS

4.1 The hair oil shall be colourless or coloured, with or without perfume. It shall be free from any sediment and suspended matter at 27°C.

4.2 Ingredients

Unless specified otherwise, all the raw materials used in the manufacture of hair oils shall conform to the requirements prescribed in the relevant Zambian Standard where such standards exist or any other recognised national or international standard.

4.3 Hair oil.

If dyes or colours are to be added in the manufacture of oils they should be oil soluble and shall conform to the Food and Drugs Act. They should also not stain clothes.

4.4 Dermatological safety requirement

For determining dermatological safety of a new formulation, or of a new raw material in a new formulation, the method prescribed in ZS 179 in the prophetic testing shall be followed.

NOTE.

It shall be the responsibility of the manufacturer of the hair oil to satisfy himself of the dermatological safety of his formulation according to that standard before releasing the product for sale.

4.5 Other requirements

The hair oil shall comply with the requirements given in the tables when tested according to the method of test given.

SPECIFIC REQUIREMENTS FOR HAIR OIL

Table 1 **Table 1 — Specific requirements for body oils**

CHARACTERISTIC	REQUIREMENTS	METHODS OF TEST
Moisture	0.5	ZS 185-6
Odour	Should not be repulsive	

Specific gravity (at 25°C)	0.8 – 0.9	ZS 185-5
Viscosity (at 25°C)	20 – 35	ZS 185-8
Acid value:	1.0, max	ZS 185-11
Peroxide value, max	7.5	ZS 185- 13
Test for rancidity	To pass test	ZS 185- 9
Shelf-life, max	2 years	
Thermal stability	To pass the test	ZS 185- 3

4.5 Heavy metals

Hair oils shall comply with the heavy metal requirements given in Table 2 when tested in accordance with the test methods specified therein.

Table 2 — Heavy metal requirements for hair oils

Characteristic	Requirement	Test method
Lead, mg/kg, max.	10	ZS 185-16
Arsenic, mg/kg, max.	2	
Mercury, mg/kg, max.	2	
Cadmium	2	
Note- The total amount of heavy metals as lead, mercury and arsenic, in combination in the finished product shall not exceed 10 mg/kg		

The total amount of heavy metals as lead, mercury and arsenic, in combination, in the finished product shall not exceed 20 mg/kg.

Microbiological requirement

Hair oils shall comply with the microbiological requirements given in Table 3 when tested in accordance with the test methods specified therein.

Table 3 — Microbiological requirements for hair oils

Characteristic	Requirement	Test method
Total viable count for aerobic mesophyllic micro-organisms per g, max.	1000	ISO 21149
<i>Pseudomonas aeruginosa</i>	Not detectable in 0.5 g of cosmetic product	ISO 22717
<i>Staphylococcus aureus</i>		ISO 22718
<i>Candida albicans</i>		ISO 18416

5. PACKING AND MARKING

5.1 The hair oil shall be packed in suitable, well closed containers which shall not deteriorate the product.

- a) Name of all ingredient(s) in the product.
- b) Manufacturer's name, address and a recognised trade mark, if any
- c) Net mass of the product.
- d) Instructions for storage and use.
- e) Batch number, in code or otherwise.
- f) manufacturing date
- g) Expiry date
- h) The container may also be marked with the ZABS Certification Mark.

NOTE.

Information about the ZABS Certification Mark may be obtained from the Zambia Bureau of Standards.

6. SAMPLING

6.1 Representative samples shall be drawn as prescribed in ZS 185.

6.2 Test for all characteristics shall be carried out on the composite sample.

6.2 The material shall be taken to have conformed to the specification if the composite sample passes all tests.

7. TESTS

Tests shall be carried out prescribed in ZS 185.