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***भारतीय मानक***

***Indian Standard***

**कैनवास जूते के लिए पॉलिश, तरल (सफ़ेद) — विशिष्टि**

(*पहला पुनरीक्षण*)

**Polish, Liquid (White), for**

**Canvas Footwear — Specification**

*(First Revision)*

ICS 87.040

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**भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

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**April 2024 Price Group**

Brushware, Polishes, Lac, Lac Products Sectional Committee, CHD 23

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Brushware, Polishes, Lac, Lac Products Sectional Committee had been approved by the Chemical Division Council.

Indigenous production of liquid canvas footwear polish for white canvas shoes is developing rapidly. In order to help the manufacturers to prepare a product of acceptable quality, the Committee has published this standard in 1981.

This first revision has taken up in order to bring out the standard in the latest style and format of the Indian Standards. The relevant clauses have been added and the references have been updated. Amendment No. 1 issued to previous version of this standard has also been incorporated in this revision.

The composition of the Committee, responsible for the formulation of this standard is given in Annex C.

For the purpose of deciding whether a particular requirement of this standard is compiled with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 2022 ‘Rules for rounding off numerical values (*second revision*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Indian Standard*

POLISH, LIQUID (WHITE), FOR

CANVAS FOOTWEAR — SPECIFICATION

(*First Revision*)

**1 SCOPE**

This standard prescribes the requirements and the methods of sampling and test for liquid polish suitable for application to white canvas footwear.

**2 REFERENCES**

The Indian Standards given below contain provisions which through reference in this text, constitute provision of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards.

|  |  |
| --- | --- |
| *IS No.* |  *Title* |
| IS 1070 : 2023 | Reagent grade water — Specification (*fourth revision*) |
| IS 4905 : 2015/ ISO 24153 : 2009 | Random sampling and randomization procedures (*first revision*) |
| IS 8171 : 1992 | Glossary of terms relating to polishes and related materials (*second revision*) |

**3 TERMINOLOGY**

For the purpose of this standard, the definitions given in IS 8171 shall apply.

**4 REQUIREMENTS**

**4.1 Composition**

The polish shall consist essentially of a suspension of finely divided particles in liquid media containing suitable binder. It shall be free from dirt and materials deleterious to cotton fabric or likely to cause irritation to the skin.

**4.2 Odour**

The liquid shall not have a disagreeable odour.

**4.3 Colour**

The liquid shall be white in colour. It may be tinted using a suitable colourant and may contain an optical brightening agent for perceived whitening effect.

**4.4 Consistency**

The liquid shall be a smooth homogeneous mass, free from lumps. It should be pourable and spreadable evenly in thin layers at all normal temperatures of usage.

**4.5 Stability of Suspension**

The liquid polish shall pass the test as prescribed in **A-2**.

**4.6 Applicability**

When applied to the surface of cleaned canvas footwear free from dirt or gritty material, the polish shall spread evenly and the coated surface shall dry in a reasonable time under normal room condition, as prescribed in **A-3**. The coated surface shall show no sign of deformity.

**4.6.1** The dried film of polish on the canvas surface shall be non-tacky, free from cracks or flaking and shall exhibit a smooth, white surface which is resistant to gentle rubbing by dry fingers or a soft brush.

**4.7 Water Soluble Colours**

The liquid shall not contain any water soluble colours, when tested as prescribed in **A-5**.

**4.8** The material shall also comply with the requirements given in Table 1.

**Table 1 Requirements for Polish, Liquid (White), for Canvas Footwear**

(*Clause* 4.8)

|  |  |  |  |
| --- | --- | --- | --- |
| **SL. NO.** | **CHARACTERISTIC** | **REQUIREMENT** | **METHOD OF TEST, REF TO CL. NO. IN ANNEX A** |
| (1) | (2) | (3) | (4) |
| i) | Non- volatile matter, percent by mass, *Min* | 20 | **A-4** |
| ii) | *p*H | 6.5 to 8.5 | **A-5** |

**4.9 Keeping Quality**

The product shall show no signs of microbial growth on the surface of the liquid or on the surface of the container. It shall retain the properties specified in this standard for one year from the date of manufacture, when stored in original sealed containers under cover at atmospheric temperature (21°C to 38°C).

**5 PACKING AND MARKING**

**5.1 Packing**

The liquid shall be supplied in sound clean containers, made of glass or plastic. The package may be of 120 g or 100 ml capacity or as agreed to between the supplier and purchaser. A suitable felt or sponge applicator may also be provided.

**5.1.1** The **c**ontainers may be packed in lots in cartons and the cartons in turn shall be packed in card-board or wooden boxes or as agreed to between the purchaser and supplier.

**5.2 Marking**

**5.2.1** The containers shall be legibly marked with the following:

1. Name of the material;
2. Manufacturer's name and trade-mark, if any;
3. Net mass of the material when packed;
4. Month and year of manufacture;
5. Batch No / Code No.,
6. Direction for use and storage; and
7. Other provisions of Packaging Commodity Act.

**5.2.2** *BIS Certification Marking*

The containers may also be marked with the Standard Mark.

**5.2.2.1** The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act*, 2016 and the Rules and Regulations framed thereunder, and the products may be marked with the standard mark**.**

**6 SAMPLING**

The method of drawing representative samples of the material and the criteria for conformity shall be as prescribed in Annex B.

**ANNEX A**

(*Clauses* 4.5, 4.6, 4.7, *and* Table 1)

**METHODS OF TEST FOR POLISH, LIQUID (WHITE), FOR CANVAS FOOTWEAR**

**A-1 QUALITY OF REAGENTS**

Unless specified otherwise, pure chemicals and distilled water (*see* IS 1070) shall be employed in tests.

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

**A-2 TEST FOR STABILITY OF SUSPENSION**

**A-2.1 Procedure**

Stir the contents of the container and transfer to a dear stoppered graduated glass cylinder of 100 ml capacity. Shake the liquid gently to prevent frothing to disperse the pigments uniformly. Allow the cylinder to stand on the bench at room temperature for 6 h. The liquid shall not shots separation of clear liquid at the top and the pigments shall not settle doss leaving more than a 3 ml layer of clear liquid at the top. The clean liquid shall almost be colourless.

**A-3 TEST FOR APPLICABILITY**

**A-3.1 Procedure**

Use a canvas cloth measuring approximately 100 mm × 100 mm free from dust and dirt for the test. Apply the liquid polish in a thus film to the smooth side of the canvas 11 Jib a felt or sponge applicator evenly. Allow the polish to dry for 6 h at room temperature. Examine the surface for tackiness, freedom from cracks and/or flaking

**A-3.2** The dried film shall not show, undue signs of pigment removal when gently rubbed with fingers or a soft brush.

**A-4 DETERMINATION OF NON-VOLATILE MATTER**

**A-4.1 Procedure**

Weigh accurately about 5 g of the well mixed sample in a tared flat bottomed dish of about 80 mm diameter. First heat to dryness on a steam bath and then in an air oven to constant mass at 105 °C.

**A-4.2 Calculation**

Non-volatile matter content, percent by mass = $\frac{(M\_{3}-M\_{1})}{M\_{2}-M\_{1}}$×100

Where,

 *M*1 =. mass in g of the dish,

 *M*2 = mass in g of the dish and polish, and

 *M*3= mass in g of the dish and the residue.

**A-5 DETERMINATION OF *p*H AND TEST FOR SOLUBLE COLOURING MATTER**

**A-5.1 Procedure**

Dilute 5 ml of the liquid polish with water to 100 ml and shake the mixture uniformly in a stoppered glass cylinder. Allow to stand for 1 h and measure the *p*H of the liquid using a standard *p*H indicator paper or a *p*H meter.

**A-5.1.1** Filter or centrifuge the liquid obtained in **A-5.1**. The clear fluid shall be colourless.

**ANNEX B**

(*Clause* 6)

**SAMPLING OF CANVAS FOOTWEAR POLISH, LIQUID (WHITE)**

**B-1 GENERAL REQUIREMENTS OF SAMPLING**

**B-1.1** In drawing, preparing, storing and handling of test samples, the following, precautions and directions shall be observed.

**B-1.2** Samples shall be taken in a place not exposed to dust or soot.

**B-1.3** The sampling instrument shall be clean and dry when used.

**B-1.4** Precautions shall be taken to protect the samples, the material being sampled, the sampling instrument and the containers for samples from adventitious contamination.

**B-1.5** Samples shall be placed in clean, dry and air-tight glass containers or other suitable containers on which the material has no action.

**B-1.6** The sample containers shall be of such size that they are almost completely filled by the sample.

**B-1.7** Each sample container shall be sealed air-tight after filling and marked with full details of sampling, the date of sampling and the month and year of manufacture of the material.

**B-1.8** Samples shall be stored in such a manner that the temperature of the material does not vary unduly from the normal temperature.

**B-2 SCALE OF SAMPLING**

**B-2.1** For determining conformity of a consignment to this specification, samples shall be selected so as to be representative of the consignment. Samples drawn in compliance with an agreement between the purchaser and the supplier shall be held to be representative of the consignment. In case of dispute, the following scheme is recommended to serve as guide.

**B-2.2 Lot**

All the containers in a single consignment of the material drawn from the same batch of manufacture and the same size, shall constitute a lot. If a consignment is declared or known to consist of different batches of manufacture or different sizes of containers, the containers belonging to the same batch and size shall be grouped together and each group shall constitute a separate lot.

**B-2.2.1** Samples shall be tested for each lot for ascertaining conformity of the material to the requirements of this specification.

**B-2.3** The number of containers (*n*) to be chosen from a lot shall depend upon the size of the lot (*N*) and shall be in accordance with Table 2.

**Table 2 Number of Containers to be selected**

(*Clause* B-2.3)

|  |  |
| --- | --- |
| **Lot Size**(*N*) | **No of Containers to be Selected**(*n*) |
| (1) | (2) |
| Up to 500 | 10 |
| 501 to 1000 | 15 |
| 1001 and above | 20 |

**B-2.4** These containers shall be chosen at random from the lot and in order to ensure the randomness of selection, a random number table shall be used. In case such tables are not available, the following procedure shall be adopted:

Arrange all the containers in the lot in a systematic manner and starting from any container, count them as 1, 2, 3, Up to r and so on, where r is the integral part of *N/n*. Every *r*th container thus counted shall be withdrawn to give sample for test.

NOTE — For details of this procedure as well as other methods of random selection, reference may be made to IS 4905.

**B-3 PREPARATION OF COMPOSITE SAMPLE**

**B-3.1** Shake well each of the containers selected according to **B-2.4** and pourout some quantity of liquid such that the total quantity obtained from all the containers provides material sufficient for all the rests (about 500 g). Thoroughly mix the material drawn from the selected containers so as to form composite sample. Divide the composite sample into three parts, each sufficient for carrying out the intended tests and transfer them to the clean and dry sample containers. Send one each of these to the purchase and supplier. Reserve the third composite sample as reference sample bearing the seals of the purchaser and the supplier. Keep the reference sample at a place agreed to between the purchaser and the supplier.

**B-4 NUMBER OF TESTS AND CRITERIA FOR CONFERMITY**

**B-4.1** Tests for all the characteristics shall be done on the composite Sample.

**B-4.2** The lot shall be declared as conforming to this specification if the tests results satisfy the corresponding requirements laid down in this specification.

**ANNEX C**

(*Foreword*)

**COMMITTEE COMPOSITION**

Brushware, Polishes, Lac and Lac Products Sectional Committee, CHD 23

|  |  |
| --- | --- |
|  *Organization Representative(s)* |  |

|  |  |
| --- | --- |
| *Organization*  | *Representative(s)* |
| ICAR-National Institute of Secondary Agriculture, Ranchi | Dr. Abhijit Kar **(*Chairperson*)**  |
| Asian Paints Limited, Mumbai | Shri Subramanya Shreepathi |
| CSIR - Central Leather Research Institute, Chennai | Dr S. N. Jaisankar |
| Climax Burushwares, Delhi | Shri Vineet Choudhary |
| Consumer Voice, New Delhi | Shri M. A. U. Khan |
| Directorate General of Quality Assurance, New Delhi | Shri A. K. Patra Shri B S Tomar (*Alternate II*) |
| Government of India Stationery Office, Kolkata | Shri Bishambar Dhar Shri Rakesh Sukul (*Alternate*) |
| ICAR-National Institute of Secondary Agriculture, Ranchi | Dr. Mohammad Fahim Ansari Dr Arnab Roy Chowdhury (*Alternate*) |
| Indian Transformers Manufacturers Association, Vaishali | Shri A. K. Kaul |
| Integral Coach Factory, Chennai | Shri A. Venkatachalam |
| National Test House (NR), Ghaziabad | Shri Buddh PrakashShri M Suresh Babu (*Alternate*) |
| Ordnance Factory, Muradnagar | Shrimati Supriya Sinha |
| Renshel Export Private Limited, Kolkata | Shri Suraj Singhania |
| Shellac and Forest Products Export Promotion Council, Kolkata | Shri Ashish Gajanan AgrawalDr Debjani Roy (*Alternate*) |
| Shriram Institute for Industrial Research, Delhi | Shri MOHAN SINGH CHAUHANDr. Manmohan Kumar (*Alternate*) |
| Southern Railway, Chennai | Shri Ashok Kumar |
| Tajna Shellac Private Limited, Kolkata | Shri Roshan Lal Sharma |
| The Waxpol Industries Limited, Kolkata | Shri Shrey GargShri Rabindra Nath Kandu (*Alternate*)Shri C. S. Prasad (*Alternate II*) |
| Tribal Co-Operative Marketing Development Federation of India Limited, Delhi | Shri Sudhir Kumar GullaiyaShri Siddhartha Sankar Maiti (*Alternate*) |
| Usha Industries, New Delhi | Shri Rahul Kumar |
| Wild Life Crime Control Bureau, New Delhi | Shri B S Khati Shri Arnab Basu (*Alternate*) |
| Wecare Brushes India, Sonipat | Shri Tarun Mehdiratta |
| BIS Directorate General | Shri Ajay Kumar Lal, Scientist ‘F’/Senior Director and Head (Chemical) [Representing Director General (*Ex-officio*)] |

*Member Secretary*

SUSHANT KUMAR

Scientist ‘C’/Deputy Director

 (Chemical), BIS