

INTERNATIONAL  
STANDARD

**ISO**  
**56-2**

First edition  
1979-04-01

**AMENDMENT 1**  
1996-12-15

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**Shellac — Specification —**

**Part 2:**

Machine-made shellac

AMENDMENT 1

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*Gomme laque en feuilles — Spécification —*

*Partie 2: Gomme laque en feuilles de fabrication mécanique*

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**AMENDMENT 1**

INTERNATIONAL

**ISO**



Reference number  
ISO 56-2:1979/Amd.1:1996(E)

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Amendment 1 to International Standard ISO 56-2:1979 was prepared by Technical Committee ISO/TC 50, *Lac*.

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International Organization for Standardization  
Case postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

# Shellac — Specification —

## Part 2:

Machine-made shellac

## AMENDMENT 1

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Page 9, subclause B.1.5

Add the following note after B.1.5:

NOTE — The solution should preferably be stored in amber-coloured bottles.  
<https://standards.iteh.ai/catalog/standards/sis/1615100-1495-4704-993d-21735703fc47/iso-56-2-1979-amd-1-1996>

Page 17, Annex F

Replace the text of the existing annex with the following:

### F.1 General

The colour index of shellac can be determined by either of the two methods described below. However, in case of dispute, method B may be used as the referee method for determination of colour index.

### F.2 Method A

Renumber clauses F.1 to F.5.3 as F.2.1, F.2.2, F.2.2.1, F.2.2.2, F.2.2.3, F.2.3, F.2.3.1, F.2.3.2, F.2.4, F.2.4.1, F.2.4.2, F.2.5, F.2.5.1, F.2.5.2 and F.2.5.3 respectively and delete the number of subclause F.4.2.1.

### F.3 Method B

#### F.3.1 Principle

The optical density of an alcoholic shellac solution (concentration 1,0 g/l) is measured at a particular wavelength in the visible range, which, after multiplication by 136,9, gives the value of the colour index.

## F.3.2 Apparatus

### F.3.2.1 Spectrometer.

Any spectrometer/colorimeter (grating type) capable of measuring absorption in the visible range (400 nm to 700 nm).

**F.3.2.2 Volumetric flasks**, with ground-joint stoppers, of capacity 10 ml and 100 ml.

**F.3.2.3 Pipette**, of capacity 1 ml.

## F.3.3 Reagents

### F.3.3.1 Alcohol.

Ethanol (absolute) or 95 % volume fraction rectified spirit or denatured spirit, provided that it is colourless.

## F.3.4 Procedure

### F.3.4.1 Preparation of test solution

Weigh accurately 1 g of the prepared test sample (see S.3.1 in annex S) of shellac and transfer the material to the 100-ml volumetric flask (F.3.2.2). Add 60 ml to 70 ml of alcohol (F.3.3.1) and shake the flask vigorously as soon as the alcohol is added until the shellac is completely dissolved. Add more solvent, and finally make up the volume to the mark of the volumetric flask. Filter the solution in an ordinary funnel using medium-grade filter paper (preferably Whatman No. 1<sup>1)</sup>) and keeping the funnel covered (best results are obtained if the filtration is carried out under saturated vapour pressure of the solvent). Discard the first 15 ml of the clear filtrate.

Transfer 1 ml of the filtrate by means of a pipette (F.3.2.3) to the 10 ml volumetric flask. Add alcohol to it and make up to the mark of the flask.

### F.3.4.2 Measurement of optical density

Switch on the spectrometer/colorimeter. After the warming-up period of the instrument, set the wavelength at 425 nm, match the cuvettes with the alcohol used for the preparation of the solution. Transfer a portion of the diluted test solution to one of the cuvettes. Record the value of the optical density registered by the instrument.

## F.3.5 Calculation

Colour index = optical density  $\times$  136,9

Page 21, subclause H.1.1

Replace the last sentence with the following:

Alternatively, heat in a muffle furnace at 650 °C to 700 °C until constant mass is obtained.

1) Whatman No. 1 is an example of a suitable product available commercially. This information is given for the convenience of users of this part of ISO 56 and does not constitute an endorsement by ISO of this product.

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**ICS 87.060.20**

**Descriptors:** shellac, specifications, materials specifications, chemical analysis, sampling, tests.

Price based on 2 pages

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