

# INTERNATIONAL STANDARD

# IEC 60464-1

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AMENDMENT 1  
2006-01

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Amendment 1

**Varnishes used for electrical insulation –**

**Part 1:  
Definitions and general requirements**

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## FOREWORD

This amendment has been prepared by IEC technical committee 15: Electrical insulating materials.

The text of this amendment is based on the following documents:

FDIS	Report on voting
15/252/FDIS	15/279/RVD

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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### 1 Scope

*Delete the second sentence which reads "All varnishes contain solvent."*

### 3 Designation

*Insert, after Table 2 and before the paragraph that commences "The code letters associated ... " the following new paragraph and new Table 3:*

The designation letter of the varnish type shall follow the resin type letter in brackets

**Table 3 – Varnish types**

Type	Code letter
Organic solvent based	S
Water based	W
Emulsion	E

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## **4 Definitions**

*Replace the title of Clause 4 as follows:*

### **4 Terms and definitions**

#### **4.1 Varnish**

*Replace the existing first two sentences as follows:*

A solution or emulsion of one or more resins in a solvent or carrier liquid. Other components may be present, such as driers, catalysts, reactive diluents, dyestuffs, pigments or co-solvents.

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*Add the following new definitions:*

#### **4.14 Emulsion**

stable, colloidal mixture of two immiscible liquids

#### **4.15 Co-solvent**

solvent, usually a polar or hydrophilic liquid, used in small concentrations to bridge between the polymeric resin and the main solvent (usually water) and facilitate emulsification

#### **4.16 Volatile organic compound content**

mass of organic material lost from a water or emulsion based varnish during the drying/curing process, expressed in relation to the mass of the resin of the varnish

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