



# SLOVENSKI STANDARD

## SIST EN 61629-1:1998

01-junij-1998

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### Aramid pressboard for electrical purposes - Part 1: Definitions, designations and general requirements (IEC 61629-1:1996)

Aramid pressboard for electrical purposes -- Part 1: Definitions, designations and general requirements

Aramid-Tafelpreßspan für elektrotechnische Zwecke -- Teil 1: Definitionen, Bezeichnungen und allgemeine Anforderungen

Carton comprimé aramide à usages électriques -- Partie 1: Définitions, désignations et prescriptions générales

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**Ta slovenski standard je istoveten z: EN 61629-1:1996**

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#### **ICS:**

29.035.10	Papirni in kartonski izolacijski materiali	Paper and board insulating materials
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**SIST EN 61629-1:1998**

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ICS 29.040.20

Descriptors: Solid electrical insulating materials, paper, paper boards, aramid fibres, designation, specification, thickness, marking, packing

English version

**Aramid pressboard for electrical purposes**  
**Part 1: Definitions, designations and general requirements**  
**(IEC 1629-1:1996)**

Carton comprimé aramide  
à usages électriques  
Partie 1: Définitions, désignations  
et prescriptions générales  
(CEI 1629-1:1996)

Aramid-Tafelpreßspan für  
elektrotechnische Zwecke  
Teil 1: Begriffe, Kennzeichnung  
und allgemeine Anforderungen  
(IEC 1629-1:1996)

SIST EN 61629-1:1998

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

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### Foreword

The text of document 15C/618/FDIS, future edition 1 of IEC 1629-1, prepared by SC 15C, Specifications, of IEC TC 15, Insulating materials, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61629-1 on 1996-10-01.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1997-07-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1997-07-01

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### Endorsement notice

The text of the International Standard IEC 1629-1:1996 was approved by CENELEC as a European Standard without any modification.

In the official version, for annex A, Bibliography, the following notes have to be added for the standards indicated:

- |             |   |
|-------------|---|
| IEC 641-1   | NOTE: Harmonized, together with its amendment 1:1993, as EN 60641-1:1995 (not modified).                          |
| IEC 641-2   | NOTE: Harmonized, together with its corrigendum 1994 and its amendment 1:1993, as EN 60641-2:1995 (not modified). |
| IEC 641-3-1 | NOTE: Harmonized as EN 60641-3-1:1994 (not modified).   |

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**NORME  
INTERNATIONALE  
INTERNATIONAL  
STANDARD**

**CEI  
IEC**

**1629-1**

Première édition  
First edition  
1996-10

**Carton comprimé aramide  
à usages électriques –**

**Partie 1:  
Définitions, désignations et prescriptions  
générales**

**(standards.iteh.ai)**

**Aramid pressboard for electrical  
purposes –**

**Part 1:  
Definitions, designations and  
general requirements**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ARAMID PRESSBOARD FOR ELECTRICAL PURPOSES –****Part 1: Definitions, designations and general requirements**

## FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 1629-1 has been prepared by sub-committee 15C: Specifications, of IEC technical committee 15: Insulating materials.

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

FDIS	Report on voting
15C/618/FDIS	15C/688/RVD

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

IEC 1629 consists of the following parts, under the general title *Aramid pressboard for electrical purposes*:

- Part 1: Definitions, designations and general requirements
- Part 2: Methods of test
- Part 3: Specifications for individual materials

Annex A is for information only.

## ARAMID PRESSBOARD FOR ELECTRICAL PURPOSES –

### Part 1: Definitions, designations and general requirements

#### 1 Scope

This part of IEC 1629 contains the definitions, designations and general requirements of aramid pressboard for electrical purposes.

Materials which conform to this specification meet established levels of performance. However, the selection of a material for a specific application should be based on the actual requirements necessary for the adequate performance in that application and not based on this specification alone.

While the primary use of these materials is an electrical insulation, there is no intent to discourage their use in other applications for which their properties may make them suitable.

#### 2 Definitions

For the purpose of this part of IEC 1629, the following definitions apply:

**2.1 aramid pressboard:** Board produced normally on an intermittent board-making machine from pulp made from high temperature resistant aramid fibres and fibrils which are produced of synthetic polyamid having at least 85 % of amide linkage attached directly to two aromatic rings.

**2.2 calendered aramid pressboard:** Aramid pressboard which is densified by a subsequent calendering process.

**2.3 high-density aramid pressboard:** Aramid pressboard which is densified by a subsequent heat-pressing operation.

#### 3 Designation

The aramid pressboard materials shall be designated as follows:

<u>Type</u>	<u>Description</u>	<u>Apparent density (g/cm<sup>3</sup>)</u>
APB-LD	Low density	0,5 to 0,7
APB	Standard density	0,6 to 1,0
APB-C	Medium density/calendered	0,8 to 1,1
APB-HD	High density/heat compressed	1,0 to 1,2

#### 4 General requirements

##### 4.1 Composition

The material shall be manufactured from aramid high temperature resistant fibres, according to the definition given in 2.1.

## 4.2 Finish

Boards shall be plane, free from local deformations or surface defects. All boards shall be supplied with trimmed edges. The surface texture of types APB-LD, APB and APB-C shows a cloth mark impression.

Type APB-HD has a smoother surface than the other types of aramid pressboard and an off-white aspect.

## 4.3 Machinability

When cut, sawn, punched or otherwise machined in accordance with the recommendations of the supplier, the board shall not show any undue splitting, cracking, or ragging of the edges.

## 5 Thickness

### 5.1 Preferred nominal thicknesses of the boards

Type	Preferred nominal thicknesses (mm)
APB-LD	1,6 - 3,2
APB	1,0 - 1,5 - 2,0 - 2,4 - 3,0 - 4,0 - 5,0
APB-C	0,8 - 1,2 - 1,7 - 2,1 - 2,7 - 3,7 - 4,7
APB-HD	1,0 - 1,5 - 2,0 - 3,0 - 3,3 - 4,0 - 4,8 - 6,0 - 6,4 - 8,0 - 9,6

### 5.2 Deviation of thickness

The deviation from nominal thickness shall not exceed the values which will be given in the sheets of the future IEC 1629-3.

## 6 Conditions of supply – Packaging

The material shall be supplied in a packaging which ensures adequate protection during handling, transportation, and storage.

## 7 Marking

### 7.1 Identification

Every material consignment shall be legibly marked with a clearly identifiable code.

### 7.2 Marking material

Any marking material used on the pressboard shall be electrically neutral, oil resistant and non-polluting to oil.

\* Under consideration.