SLOVENSKI STANDARD
SIST EN 60317-2:2001/A2:2002

01-april-2002

Specifications for particular types of winding wires - Part 2: Solderable polyurethane enamelled round copper wire, class 130, with a bonding layer (IEC 60317-2:1990/A2:1999)

Specifications for particular types of winding wires -- Part 2: Solderable polyurethane enamelled round copper wire, class 130, with a bonding layer

Technische Lieferbedingungen für bestimmte Typen von Wickeldrähten -- Teil 2: Runddrähte aus Kupfer, verzinnbar, lackisoliert mit Polyurethan und darüber mit Backlack, Klasse 130

Spécifications pour types particuliers de fils de bobinage -- Partie 2: Fil de section circulaire en cuivre émaillé avec polyuréthane brasable, classe 130, avec une couche adhérente

Ta slovenski standard je istoveten z: **EN 60317-2:1994/A2:2000**

ICS:

29.060.10	Žice	Wires

SIST EN 60317-2:2001/A2:2002 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60317-2/A2

February 2000

ICS 29.060.10

English version

Specifications for particular types of winding wires Part 2: Solderable polyurethane enamelled round copper wire, class 130, with a bonding layer (IEC 60317-2:1990/A2:1999)

Spécifications pour types particuliers de fils de bobinage
Partie 2: Fil de section circulaire en cuivre émaillé avec polyuréthane brasable, classe 130, avec une couche adhérente
(CEI 60317-2:1990/A2:1999)

Technische Lieferbedingungen für bestimmte Typen von Wickeldrähten
Teil 2: Runddrähte aus Kupfer, verzinnbar, lackisoliert mit Polyurethan und darüber mit Backlack, Klasse 130
(IEC 60317-2:1990/A2:1999)

This amendment A2 modifies the European Standard EN 60317-2:1994; it was approved by CENELEC on 2000-01-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

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 amendment 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

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

Ref. No. EN 60317-2:1994/A2:2000 E

Foreword

The text of document 55/693/FDIS, future amendment 2 to IEC 60317-2, prepared by IEC TC 55, Winding wires, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A2 to EN 60317-2:1994 on 2000-01-01.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2000-10-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2003-01-01

Endorsement notice

The text of amendment 2:1999 to the International Standard IEC 60317-2:1990 was approved by CENELEC as an amendment to the European Standard without any modification.

NORME INTERNATIONALE
INTERNATIONAL STANDARD

CEI
IEC
60317-2

1990

AMENDEMENT 2
AMENDMENT 2
1999-10

Amendement 2

Spécifications pour types particuliers de fils de bobinage –

Partie 2:
Fil de section circulaire en cuivre émaillé avec polyuréthanne brasable, classe 130, avec une couche adhérente

Amendment 2

Specifications for particular types of winding wires –

Part 2:
Solderable polyurethane enamelled round copper wire, class 130, with a bonding layer

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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FOREWORD

This amendment has been prepared by IEC technical committee 55: Winding wires.

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

FDIS	Report on voting
55/693/FDIS	55/720/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.

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17 Solderability

17.3 Nominal conductor diameters over 0,100 mm

Replace the existing title and text by the following:

17.3 Nominal conductor diameter over 0,100 mm

The temperature of the solder bath shall be (375 ± 5) °C. The maximum immersion (in seconds) shall be the following multiple of the nominal conductor diameter (in millimetres) with a minimum of 2 s.

Grade 1B	Grade 2B
12 s/mm	16 s/mm

The surface of the tinned wire shall be smooth and free from holes and enamel residues.

18 Heat or solvent bonding

Replace the existing text by the following:

NOTE – Solvent bonding: test required but not yet under consideration.

18.1 Heat bonding

18.1.1 Heat bonding strength of a helical coil

18.1.1.1 At room temperature

The specimens shall be prepared according to the test method, and the temperature of the oven for bonding shall be fixed as agreed between purchaser and supplier for the different types of bonding enamels. The suggested temperature for polyamide bonding enamel is (200 ± 2) °C and the suggested temperature for polyvinyl butyral bonding enamel is (170 ± 2) °C.

Results: when testing the specimens according to the test method, under the action of load specified in table 2, no turns other than possibly the first and the last shall be separated.

18.1.1.2 At elevated temperature

The specimens shall be prepared and shall be conditioned as described in the test method.

The elevated temperature shall be fixed as agreed between purchaser and supplier for the different types of bonding enamels. The suggested temperature for polyamide bonding enamel is (155 ± 2) °C and the suggested temperature for polyvinyl butyral bonding enamel is (90 ± 2) °C.

Results: when testing the specimens according to the test method, under the action of load specified in table 2, no turns (other than possibly the first and the last) shall be separated.

Table 2 – Loads

Nominal conductor diameter mm		Room temperature	Elevated temperature
Over	Up to and including	Load N	Load N
–	0,050	*	*
0,050	0,071	0,05	0,04
0,071	0,100	0,08	0,06
0,100	0,160	0,12	0,08
0,160	0,200	0,25	0,19
0,200	0,315	0,35	0,25
0,315	0,400	0,70	0,55
0,400	0,500	1,10	0,80
0,500	0,630	1,60	1,20
0,630	0,710	2,20	1,70
0,710	0,800	2,80	2,10
0,800	0,900	3,40	2,60
0,900	1,000	4,20	3,20
1,000	1,120	5,00	3,80
1,120	1,250	5,80	4,40
1,250	1,400	6,50	4,90
1,400	1,600	8,50	6,40
1,600	1,800	10,00	7,90
1,800	2,000	12,00	7,90

* For nominal conductor diameters up to and including 0,050 mm, the test method and requirements shall be agreed between purchaser and supplier.