



**NSAI**  
Standards

Irish Standard  
I.S. EN 13600:2021

# Copper and copper alloys - Seamless copper tubes for electrical purposes

**I.S. EN 13600:2021**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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## National Foreword

I.S. EN 13600:2021 is the adopted Irish version of the European Document EN 13600:2021, Copper and copper alloys - Seamless copper tubes for electrical purposes

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**CEN/TC 133**

Date: 2020-10

**FprEN 13600:2020**

CEN/TC 133

Secretariat: DIN

**Copper and copper alloys — Seamless copper tubes for electrical purposes**

*Kupfer und Kupferlegierungen — Nahtlose Rohre aus Kupfer für die Anwendung in der  
Elektrotechnik*

*Cuivre et alliages de cuivre — Tubes sans soudure en cuivre pour usages électriques*

ICS:

Descriptors:

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## **FprEN 13600:2020 (E)**

### **European foreword**

This document (FprEN 13600:2020) has been prepared by Technical Committee CEN/TC 133 “Copper and copper alloys”, the secretariat of which is held by DIN.

This document is currently submitted to the Formal Vote.

This document will supersede EN 13600:2013.

In comparison with EN 13600:2013, the following changes were made:

- a) modification of tolerances on wall thicknesses;
- b) update of normative references.



## 1 Scope

This document specifies the composition, property requirements including electrical properties, and tolerances on dimensions and form for seamless drawn copper tubes for electrical purposes, delivered in straight lengths or alternatively in level wound coils with the cross-sections and size ranges below:

- for round tubes in straight lengths with outside diameters from 3 mm up to and including 450 mm and wall thicknesses from 0,3 mm up to and including 10 mm;
- for round tubes in level wound coils with outside diameters from 3 mm up to and including 30 mm and wall thicknesses from 0,3 mm up to and including 10 mm;
- for square and rectangular tubes with major outside dimension from 5 mm up to and including 150 mm and wall thicknesses from 0,5 mm up to and including 10 mm.

The sampling procedures and test methods for verification of conformity to the requirements of this document are also specified.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1976, *Copper and copper alloys — Cast unwrought copper products*

EN 10204, *Metallic products — Types of inspection documents*

EN ISO 2626, *Copper — Hydrogen embrittlement test (ISO 2626)*

EN ISO 6506-1, *Metallic materials — Brinell hardness test — Part 1: Test method (ISO 6506-1)*

EN ISO 6507-1, *Metallic materials — Vickers hardness test — Part 1: Test method (ISO 6507-1)*

EN ISO 6892-1, *Metallic materials — Tensile testing — Part 1: Method of test at room temperature (ISO 6892-1)*

EN ISO 7438, *Metallic materials — Bend test (ISO 7438)*

EN ISO 8491, *Metallic materials — Tube (in full section) — Bend test (ISO 8491)*

EN ISO/IEC 17050-1, *Conformity assessment — Supplier's declaration of conformity — Part 1: General requirements (ISO/IEC 17050-1)*

EN ISO/IEC 17050-2, *Conformity assessment — Supplier's declaration of conformity — Part 2: Supporting documentation (ISO/IEC 17050-2)*

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