



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 61788-1:2007**

ICS 17.220  
29.050

**SUPERCONDUCTIVITY -- PART 1:  
CRITICAL CURRENT MEASUREMENT - DC  
CRITICAL CURRENT OF NB-TI COMPOSITE  
SUPERCONDUCTORS (IEC 61788-1:2006  
(EQV))**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61788-1**

January 2007

ICS 17.220; 29.050

Supersedes EN 61788-1:1998

English version

**Superconductivity**  
**Part 1: Critical current measurement -**  
**DC critical current of Nb-Ti composite superconductors**  
(IEC 61788-1:2006)

Supraconductivité  
Partie 1: Mesure du courant critique -  
Courant critique continu de  
supraconducteurs en composite Nb-Ti  
(CEI 61788-1:2006)

Supraleitfähigkeit  
Teil 1: Messen des kritischen Stromes -  
Kritischer Strom (Gleichstrom) von Nb-Ti  
Verbundsupraleitern  
(IEC 61788-1:2006)

This European Standard was approved by CENELEC on 2006-12-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 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, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the 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**

## Foreword

The text of document 90/196/FDIS, future edition 2 of IEC 61788-1, prepared by IEC TC 90, Superconductivity, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61788-1 on 2006-12-01.

This European Standard supersedes EN 61788-1:1998.

It includes the following significant technical changes with respect to EN 61788-1:1998:

- the addition of normative Annex C and informative Annex D;
- accuracy and precision statements were converted to uncertainty statements;
- the magnetic field uniformity statement was tightened from  $\pm 2\%$  to be less than the larger of 0,5 % or 0,02 T.

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) | 2007-09-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn   | (dow) | 2009-12-01 |

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 61788-1:2006 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 61788-5	NOTE	Harmonized as EN 61788-5:2001 (not modified).
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## **Annex ZA**

(normative)

### **Normative references to international publications with their corresponding European publications**

The following referenced documents are indispensable for the application 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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-815	- <sup>1)</sup>	International Electrotechnical Vocabulary (IEV) Part 815: Superconductivity	-	-

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<sup>1)</sup> Undated reference.



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