



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 60239:2005

ICS 25.180.10

**GRAPHITE ELECTRODES FOR ELECTRIC  
ARC FURNACES - DIMENSIONS AND  
DESIGNATION**

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EUROPEAN STANDARD

**EN 60239**

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2005

ICS 25.180.10

Supersedes EN 60239:1997

English version

**Graphite electrodes for electric arc furnaces –  
Dimensions and designation  
(IEC 60239:2005)**

Electrodes en graphite pour les fours  
à arc –  
Dimensions et dénomination  
(CEI 60239:2005)

Graphitelektroden für Lichtbogenöfen -  
Maße und Kennzeichnung  
(IEC 60239:2005)

This European Standard was approved by CENELEC on 2005-07-01. 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, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

**CENELEC**

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

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## Foreword

The text of document 27/464/FDIS, future edition 4 of IEC 60239, prepared by IEC TC 27, Industrial electroheating equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60239 on 2005-07-01.

This European Standard supersedes EN 60239:1997.

Significant technical changes with respect to EN 60239:1997 are as follows:

- addition of 750 mm nominal diameter electrodes;
- revision of electrode diameter and length tolerances;
- revision of nominal lengths and diameters;
- introduction of socket and pin tolerances;
- revision of Annex A on male-female electrodes;
- addition of Annex B on handling and jointing.

This new edition also aims at a better compatibility between EN 60239 and other technical standards that cover the same subject, as well as better compliance with standards for figures, tables and symbols – in that respect, and in addition to the content, the format and the title of this standard have been modified.

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) | 2006-04-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn   | (dow) | 2008-07-01 |

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 60239:2005 was approved by CENELEC as a European Standard without any modification.

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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 Where 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 60050-841	2004	International electrotechnical vocabulary Part 841: Industrial electroheat	-	-



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