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Nanotechnologies - Vocabulary - Part 3: Carbon nano-objects (ISO/TS 80004-3:2010)

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

CEN ISO/TS 80004-3:2014 (E)

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Foreword

The text of ISO/TS 80004-3:2010 has been prepared by Technical Committee ISO/TC 229 "Nanotechnologies" of the International Organization for Standardization (ISO) and has been taken over as CEN ISO/TS 80004-3:2014 by Technical Committee CEN/TC 352 "Nanotechnologies" the secretariat of which is held by AFNOR.

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The text of ISO/TS 80004-3:2010 has been approved by CEN as CEN ISO/TS 80004-3:2014 without any modification.

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Nanotechnologies — Vocabulary — Part 3:

Carbon nano-objects

Nanotechnologies — Vocabulaire — Partie 3: Nano-objets en carbone



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

In other circumstances, particularly when there is an urgent market requirement for such documents, a technical committee may decide to publish other types of document:

- an ISO Publicly Available Specification (ISO/PAS) represents an agreement between technical experts in an ISO working group and is accepted for publication if it is approved by more than 50 % of the members of the parent committee casting a vote;
- an ISO Technical Specification (ISO/TS) represents an agreement between the members of a technical committee and is accepted for publication if it is approved by 2/3 of the members of the committee casting a vote.

An ISO/PAS or ISO/TS is reviewed after three years in order to decide whether it will be confirmed for a further three years, revised to become an International Standard, or withdrawn. If the ISO/PAS or ISO/TS is confirmed, it is reviewed again after a further three years, at which time it must either be transformed into an International Standard or be withdrawn.

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ISO/TS 80004-3 was prepared jointly by Technical Committee ISO/TC 229, Nanotechnologies, and Technical Committee IEC/TC 113, Nanotechnology standardization for electrical and electronic products and systems. The draft was circulated for voting to the national bodies of both ISO and IEC.

Documents in the 80000 to 89999 range of reference numbers are developed by collaboration between ISO and IEC.

ISO/TS 80004 consists of the following parts, under the general title Nanotechnologies — Vocabulary:

—	Part	3:	Carbon	nano-o	bjects
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The following parts are under preparation:

- Part 1: Core terms
- Part 2: Nano-objects Nanoparticle, nanofibre and nanoplate 1)
- Part 4: Nanostructured materials
- Part 5: Bio/nano interface
- Part 6: Nanoscale measurement and instrumentation

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ISO/TS 27687:2008 will be revised as ISO/TS 80004-2.

- Part 7: Medical, health and personal care applications
- Part 8: Nanomanufacturing processes

Introduction

In the last two decades, various new forms of nanoscale carbon materials, including fullerenes and carbon nanotubes, have been discovered, synthesized and manufactured. These are promising materials for many industrial fields associated with nanotechnologies because of their unique electronic, electromagnetic, thermal, optical and mechanical properties.

In the context of increasing scientific knowledge and a growing number of technical terms in the field of nanotechnologies (see Bibliography), the purpose of this part of ISO/TS 80004 is to define important terms and concepts for carbon nano-objects in a precise and consistent manner, in order to clarify their interrelationship, as well as their relationship to existing terms previously used for conventional carbon materials.

This part of ISO/TS 80004 belongs to a multi-part vocabulary covering the different aspects of nanotechnologies. Most of the definitions in this part of ISO/TS 80004 are deliberately determined so as to be in harmony with a rational hierarchical system of terminology under development for nanotechnologies, although in some cases the hierarchical approach needs to be compromised due to the specific usage of individual terms.

Nanotechnologies — Vocabulary —

Part 3:

Carbon nano-objects

1 Scope

This part of ISO/TS 80004 lists terms and definitions related to carbon nano-objects in the field of nanotechnologies. It is intended to facilitate communications between organizations and individuals in industry and those who interact with them.

koniec náhľadu – text ďalej pokračuje v platenej verzii STN