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Date: 25 July 2024

Origin: European

Latest date for receipt of comments: 17 September 2024

Project No. 2024/01494

Responsible committee: RPI/13 Advanced technical ceramics

Interested committees:

Title: Draft BS EN 15365 BS Advanced technical ceramics - Mechanical properties of ceramic fibres at high temperature in a non-reactive environment - Determination of creep behaviour by the cold grip method.

Please notify the secretary if you are aware of any keywords that might assist in classifying or identifying the standard or if the content of this standard

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

English Version

Advanced technical ceramics - Mechanical properties of
ceramic fibres at high temperature in a non-reactive
environment - Determination of creep behaviour by the
cold grip method

Céramiques techniques avancées - Propriétés
mécaniques des fibres céramiques à haute température
sous environnement non réactif - Détermination du
comportement au fluage par la méthode des mors
froids

Hochleistungskeramik - Mechanische Eigenschaften
von Keramikfasern bei hohen Temperaturen in einer
reaktionsfreien Umgebung - Bestimmung des
Kriechverhaltens im Kaltverbindungsverfahren

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 184.

If this draft becomes a European Standard, CEN 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.

This draft European Standard was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents

Page

European foreword	3
1 Scope.....	4
2 Normative references.....	4
3 Terms and definitions	4
4 Principle	7
5 Significance and use	9
6 Apparatus	9
6.1 Test installations.....	9
6.2 Load train.....	9
6.3 Test chamber	9
6.4 Set-up for heating.....	10
6.5 Temperature measurement.....	10
6.6 Control of deformation	10
6.7 Data recording system	10
6.8 Determination of fibre cross sectional area.....	10
7 Test specimens	10
7.1 Test specimen preparation	10
7.2 Number of test specimens	12
8 Test procedures.....	12
8.1 Determination of the temperature profile in the furnace	12
8.2 Test set-up: Determination of the temperature profile and of the different lengths of each temperature zone in the furnace	12
8.3 Test set-up: Loading considerations.....	12
8.4 Test technique.....	12
8.5 Test validity	14
9 Calculation of results	14
9.1 Creep stress.....	14
9.2 Creep strain at time t	15
10 Test report.....	16
Bibliography	17

European foreword

This document (prEN 15365:2024) has been prepared by Technical Committee CEN/TC 184 “Advanced technical ceramics”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 15365:2010.

EN 15365:2024 includes the following significant technical changes with respect to EN 15365:2010:

- title updated;
- editorial revision.

1 Scope

This document specifies the conditions for the determination of the tensile creep deformation and failure behaviour of single filaments of ceramic fibres at high temperature and under test conditions that prevent changes to the material as a result of chemical reaction with the test environment.

This document applies to continuous ceramic filaments taken from tows, yarns, braids and knittings, which have strains to fracture less than or equal to 5 %.

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 60584 (all parts), *Thermocouples*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp/>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1 creep

time-dependent increase of gauge length starting from the time when the constant specified level of force is reached

3.2 creep threshold temperature

T_t
minimum temperature at which creep is detected

3.3 specimen temperature

T
temperature which varies along the fibre length in the cold grips case

Note 1 to entry: See 8.2.

3.4 specimen temperature in the zone

T_i
temperature defined as: $T_t \leq T_i \leq T_t + i \Delta T$

3.5 total length

L
total length of the ceramic filament between the grips