

norm**NEN-EN 50642**

Cable management systems - Test method
for content of halogens

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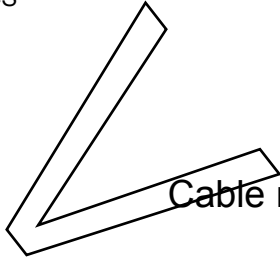
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EUROPEAN STANDARD
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DRAFT
prEN 50642

June 2016

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English Version

Cable management systems - Test method for content of halogens

Systèmes de gestion de câblage - Méthode d'essai relative à la teneur en halogènes

This draft European Standard is submitted to CENELEC members for enquiry.
Deadline for CENELEC: 2016-09-09.

It has been drawn up by CLC/TC 213.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CENELEC in three official versions (English, French, German).
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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.

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CENELEC

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

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

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37 European foreword

38 This document (prEN 50642:2016) has been prepared by CLC/TC 213, "Cable management systems".

39 This document is currently submitted to the Enquiry.

40 The following dates are proposed:

- latest date by which the existence of this document has to be announced at national level (doa) dor + 6 months
- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) dor + 12 months
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) dor + 36 months (to be confirmed or modified when voting)

Preview
prEN 50642:2016

prEN 50642:2016 (E)**41 1 Scope**

42 This European Standard specifies a method for the determination of the content of halogens in products
43 made of polymeric or composite materials by combustion, subsequent analysis of the combustion product by
44 Ion Chromatography and how this information is declared.

45 This European Standard is for environmental purposes only.

46 Compliance with this standard does not guarantee the absence of toxicity, corrosivity or opacity of produced
47 smoke, or other reaction to fire characteristics. If any of these characteristics are to be evaluated, the
48 suitable standards need to be used

49 This method is suitable for samples containing more than 0,025 g/kg of a halogen.

50 Halides insoluble in aqueous solution present in the original sample or produced during the combustion step
51 are not determined by these methods.

52 2 Normative references

53 The following documents, in whole or in part, are normatively referenced in this document and are
54 indispensable for its application. For dated references, only the edition cited applies. For undated references,
55 the latest edition of the referenced document (including any amendments) applies.

56 EN ISO 3696, *Water for analytical laboratory use - Specification and test methods (ISO 3696)*

57 3 Terms and definitions

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

59 3.1**60 halogen content**

61 content of halogens contained as organic and inorganic compounds that can be converted to halides
62 (fluoride, chloride, bromide, iodide) by combustion and then absorbed or dissolved in an aqueous solution

63 Note 1 to entry: Be aware that the above definitions are valid for this empirical standard only and do not comply with
64 scientific definitions of halogen content.

65 4 Principle

66 The sample is oxidized by combustion in a closed system containing oxygen under pressure (a calorimetric
67 bomb).

68 Halogens in compounds are converted to fluoride, chloride, bromide and iodide, which are absorbed and/or
69 dissolved in an absorption solution.

70 This method is applicable for concentrations of a halogen over 0,025 g/kg depending on the element, matrix.
71 It may be used for poorly burning samples, therefore a combustion enhancer may be used.

72 5 Interferences**73 5.1 General**

74 Inorganic halides insoluble in aqueous solution present in the original samples or produced during the
75 combustion step are not determined by the method described here. Subclauses 5.2 and 5.3 show the
76 differences that occur between the determination of the content of organic halogenated compounds and
77 inorganic halogen compounds. The inorganic halogen compounds in the material can have its origin as an
78 additive deliberately added to the material or as an impurity.

79 5.2 Organic halogen compounds

80 Organic compounds containing halogens are known under several names. Different expressions are used
81 like organohalogenes, halogenated compounds, halocarbons or organic halides. They are all substances in
82 which one or more carbon atoms are linked by covalent bonds to one or more halogen atoms.

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