



# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

**Explosive atmospheres –  
Part 20-2: Material characteristics – Combustible dusts test methods**

**Atmosphères explosives –  
Partie 20-2: Caractéristiques des produits – Méthodes d'essai des poussières  
combustibles**





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INTERNATIONAL  
ELECTROTECHNICAL  
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COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

## CONTENTS

FOREWORD.....	5
1 Scope.....	8
2 Normative references.....	8
3 Terms and definitions .....	8
4 Dust sample requirements .....	9
4.1 Receipt of sample for testing .....	9
4.2 Characterisation of sample .....	9
4.3 Preparation of sample .....	10
4.4 Test conditions.....	10
5 Combustible dusts and combustible flyings determination.....	10
5.1 Test sequence .....	10
5.2 Tests to determine whether material is a combustible dust or combustible flying.....	10
5.2.1 Visual inspection.....	10
5.2.2 Determine particle distribution .....	11
5.2.3 Ignition test in the Hartmann tube.....	11
5.2.4 Ignition test in the 20-litre sphere .....	11
6 Procedure for characterisation of combustible dust or combustible flying .....	11
7 Test methods for determination of whether a material is a combustible dust or a combustible flying.....	14
7.1 Modified Hartmann tube .....	14
7.1.1 General .....	14
7.1.2 Test equipment .....	14
7.1.3 Test procedure.....	15
7.2 20-litre sphere.....	15
7.2.1 General .....	15
7.2.2 Test equipment .....	15
7.2.3 Test procedure.....	16
7.3 Alternative method to 20-litre sphere for small test material quantities.....	16
7.3.1 General .....	16
7.3.2 Test equipment .....	17
7.3.3 Test procedure.....	17
8 Test methods for combustible dust determinations .....	17
8.1 MIT of a dust cloud .....	17
8.1.1 General .....	17
8.1.2 GG furnace .....	17
8.1.3 BAM furnace .....	18
8.2 Test for MIT of dust layer .....	19
8.2.1 General .....	19
8.2.2 Heated surface .....	19
8.2.3 Dust layers .....	20
8.2.4 Dust layer temperature.....	20
8.2.5 Ambient temperature measurements .....	20
8.2.6 Dust layer temperature test method .....	20
8.2.7 Recording of results .....	21
8.3 Method for determining minimum ignition energy of dust/air mixtures .....	22

8.3.1	General .....	22
8.3.2	Test equipment .....	22
8.3.3	Test procedure.....	23
8.3.4	Calibration for determination of minimum ignition energies (MIE) by electrically generated high-voltage d.c. sparks.....	24
8.3.5	Recording of test results .....	24
8.4	Test on resistivity .....	24
8.4.1	General .....	24
8.4.2	Test equipment .....	25
8.4.3	Test procedure.....	25
8.4.4	Recording of test results .....	26
9	Test report.....	26
Annex A (normative) Measurement of temperature distribution on the surface of the hot plate .....		27
Annex B (informative) Godbert-Greenwald oven (GG).....		28
Annex C (informative) Examples of spark-generating systems .....		29
C.1	General.....	29
C.2	Triggering by auxiliary spark using three-electrode system.....	30
C.3	Triggering by electrode movement.....	31
C.4	Triggering by voltage increase (trickle-charging circuit) .....	32
C.5	Triggering by auxiliary spark, using normal two-electrode system – Trigger transformer in discharge circuit.....	33
Annex D (normative) Vertical tube (modified Hartmann tube) apparatus .....		34
Annex E (informative) 20-litre sphere .....		35
Annex F (informative) BAM oven .....		37
Annex G (informative) Data for dust explosion characteristics .....		38
Annex H (informative) 1 m <sup>3</sup> vessel .....		39
H.1	Test principle .....	39
H.2	Test apparatus .....	39
H.3	Test conditions.....	43
H.4	Test procedure.....	43
Bibliography .....		45
Figure 1 – Protocol for characterisation of combustible dust or combustible flying .....		12
Figure 2 – Tests to define ability to form explosive dust atmosphere (combustible dust/combustible flyings).....		13
Figure 3 – Tests to characterise combustible dust or combustible flying .....		14
Figure 4 – Modified Hartmann tube .....		23
Figure 5 – Measuring cell for powder resistivity .....		25
Figure A.1 – Typical surface temperature distribution (method A).....		27
Figure B.1 – Vertical cross-section through the Godbert-Greenwald oven.....		28
Figure C.1 – Circuit – Triggering by high-voltage relay, using a two-electrode system .....		29
Figure C.2 – Apparatus for determining the minimum ignition energies of dust (schematic) – Triggering by auxiliary spark using three-electrode system.....		30
Figure C.3 – Apparatus for determining the minimum ignition energies of dust (schematic) – Triggering by electrode movement.....		31
Figure C.4 – Apparatus for determining the minimum ignition energies of dust (schematic) – Triggering by voltage increase.....		32

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Figure C.5 – Apparatus for determining the minimum ignition energies for dust (schematic) – Trigger transformer in discharge circuit .....	33
Figure D.1 – Vertical tube apparatus (modified Hartmann tube) .....	34
Figure E.1 – Test equipment 20-litre sphere (schematic).....	35
Figure E.2 – Cross-sectional view of rebound nozzle .....	36
Figure E.3 – Plan view of rebound nozzle .....	36
Figure E.4 – Cross-sectional view of dispersion cup .....	36
Figure F.1 – Cross-sectional arrangement of BAM oven.....	37
Figure H.1 – 1 m <sup>3</sup> vessel (schematic).....	40
Figure H.2 – Location of the 6 mm holes in the semicircular dust dispenser .....	41
Figure H.3 – Rebound nozzle .....	42
Figure H.4 – Dispersion cup .....	43
Table 1 – Example of ignition test report .....	21

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### **EXPLOSIVE ATMOSPHERES – Part 20-2: Material characteristics – Combustible dusts test methods**

#### FOREWORD

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International Standard ISO/IEC 80079-20-2 has been prepared by subcommittee 31M: Non-electrical equipment and protective systems for explosive atmospheres, of IEC 31: Equipment for explosive atmospheres.

It is published as a double logo standard.

This first edition cancels and replaces the first edition of IEC 61241-2-1 published in 1994, the first edition of IEC 61241-2-2 published in 1993 and the first edition of IEC 61241-2-3 published in 1994, combining the requirements into a single document, and is considered to constitute a technical revision.

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The text of this standard is based on the following documents:

FDIS	Report on voting
31M/102/FDIS	31M/108/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table. In ISO, the standard has been approved by 15 P-members out of 21 having cast a vote.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

"A list of all parts in the IEC 60079 series, under the general title *Explosive atmospheres*, as well as the International Standard 80079 series, can be found on the IEC website."

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
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**Significant changes with respect to IEC 61241-2-1:1994, IEC 61241-2-2:1993 and IEC 61241-2-3:1994**

Explanation of the significance of the changes	Clause	Type		
		Minor and editorial changes	Extension	Major technical changes
Normative references	2	X		
Terms and Definitions	3	X		
Dust sample Requirements	4	X		
Combustible Dust Determination	5	X		
Procedure for Characterisation of combustible dust or combustible flying	6	X		
Test methods for determination of a combustible dust or a combustible flying	7	X		
MIT of a dust cloud	8.1	X		
MIT of a dust layer	8.2	X		
MIE of a dust/air mixture	8.3	X		
Tests on resistivity	8.4	X		
Measurement of temperature distribution on the surface of the hot plate	Annex A	X		
Godbert-Greenwald oven	Annex B	X		
Examples of spark-generating systems	Annex C	X		
Vertical tube apparatus	Annex D	X		
20-litre sphere	Annex E	X		
BAM oven	Annex F	X		
Data for dust explosion characteristics	Annex G	X		
1m <sup>3</sup> vessel	Annex H	X		