ISO/FDIS 22932-7:2025(en)

ISO/TC 82/WG 8

Secretariat: DIN

Date: 2025-03-17xx

Mining — Vocabulary —

Part 7:

Ventilation

Exploitation minière — Vocabulaire —

Partie 7: Ventilation

FDIS stage

Formatted: English (United Kingdom)
Formatted: HeaderCentered, Left
Commented [eXtyles1]: The reference "ISO 2025" is to a withdrawn standard
Formatted: Default Paragraph Font
Formatted: Default Paragraph Font
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Formatted: zzCopyright address, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Formatted: Font: 10 pt
Formatted: Font: 10 pt
Formatted: Font: 10 pt
Formatted: FooterCentered, Left, Space Before: 0 pt, Tab stops: Not at 17.2 cm
Formatted: Font: 11 pt
Formatted: FooterPageRomanNumber, Left, Space After: 0 pt, Tab stops: Not at 17.2 cm

Formatted: Font: Bold

Formatted: HeaderCentered

Contents

Formatted: FooterPageRomanNumber

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO ~~documents~~document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part ~~2. www.iso.org/directives~~ 2 (see www.iso.org/directives).

~~Attention is drawn~~ISO draws attention to the possibility that ~~some of~~ the ~~elements~~implementation of this document may ~~be~~involve the ~~subject~~use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights~~.~~ in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights. ~~Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received. www.iso.org/patents~~

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see ~~www.iso.org/iso/foreword.html~~www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 82, Mining.

A list of all parts in the ISO 22932 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at ~~www.iso.org/members.html~~www.iso.org/members.html.

Formatted: English (United Kingdom)
Formatted: HeaderCentered, Left
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles2]: Invalid reference: "ISO 22932 series"
Formatted: Default Paragraph Font
Formatted: Default Paragraph Font
Formatted: Default Paragraph Font
Commented [eXtyles3]: The URL https://www.iso.org/members.html has been redirected to http://www.iso.org/about/members. Please verify the URL.
Formatted: Font: 10 pt
Formatted: Font: 10 pt
Formatted: Font: 10 pt
Formatted: FooterCentered, Left, Space Before: 0 pt, Tab stops: Not at 17.2 cm
Formatted: Font: 11 pt
Formatted: FooterPageRomanNumber, Left, Space After: 0 pt, Tab stops: Not at 17.2 cm

Formatted: Font: Bold
Formatted: HeaderCentered

Introduction

The ISO 22932 series has been prepared in order to standardize and to co-ordinate the global use of technical terms and definitions in mining, for the benefit of the experts working on different types of mining activities.

The need for the ISO 22932 series arose from the widely varying interpretation of terms used within the industry and the prevalent use of more than one synonym.

Commented [eXtyles4]: Invalid reference: "ISO 22932 series"
Formatted: Default Paragraph Font
Formatted: Default Paragraph Font
Formatted: Default Paragraph Font
Commented [eXtyles5]: Invalid reference: "ISO 22932 series"
Formatted: Default Paragraph Font
Formatted: Default Paragraph Font
Formatted: Default Paragraph Font

Formatted: FooterPageRomanNumber

Mining — Vocabulary — Part 7: Ventilation —

Note: Cross references, list of content and Annex A will be completed after final editing.

Part 7: Ventilation

1 Scope

This document specifies the commonly used terms and definitions in underground mine ventilation. Only those terms and definitions that have a specific meaning in this field are included.

NOTE Some terms and definitions are also applicable to surface mining.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

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

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

— ISO Online browsing platform: available at https://www.iso.org/obphttps://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/https://www.electropedia.org/

3.1 Gases in mine air

3.1.1 3.1.1
mine air
mixture of gases circulating through the workings

3.1.1.1 3.1.1.1
damp
mine air (3.1.1) deficient in oxygen

3.1.1.1.1 3.1.1.1.1
afterdamp
damp (ref)(3.1.1.1) that remain in a mine after a mine fire or an explosion of *combustible gases* (ref)(3.2.1)

Note 1 to entry: Afterdamp consists of carbonic acid gas, water vapor (quickly condensed), nitrogen, oxygen, carbon monoxide, and in some cases free hydrogen.

Note 2 to entry: Afterdamp is breathable.

Note 3 to entry: See also blackdamp (ref);; damp (ref).

Formatted: Main Title 1
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles6]: The URL https://www.iso.org/obp has been redirected to https://www.iso.org/obp/ui. Please verify the URL.
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.71 cm
Formatted: TermNum3, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles7]: The term "mine air" is used only in terms and definitions section
Commented [eXtyles8]: The term "damp" is used only in terms and definitions section
Formatted: Font: Italic
Commented [eXtyles9]: The term "afterdamp" is used only in terms and definitions section
Formatted: Font: Italic
Formatted: Font: Italic
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
Formatted: Footer, Left, Space After: 0 pt, Line spacing: single, Tab stops: Not at 17.2 cm

Note 4 to entry: See Reference [2].[1].

3.1.1.1.2 ~~3.1.1.1.2~~
blackdamp
~~afterdamp (ref)~~*afterdamp* (3.1.1.1.1) containing carbon dioxide and nitrogen in excess of the normal percentage, and in which a *flame safety lamp* (0) will not burn owing to a deficiency of oxygen

Note 1 to entry: The average blackdamp contains 10 % to 15 % carbon dioxide and 85 % to 90 % nitrogen.

Note 2 to entry: Blackdamp is formed by mine fires and the explosion of combustible gases in mines, and hence forms a part of the afterdamp ~~(ref).~~

Note 3 to entry: It extinguishes light and suffocates its victims. Hence, it is sometimes known as chokedamp.

Note 4 to entry: See Reference [2].[1].

3.1.1.1.3 ~~3.1.1.1.3~~
chokedamp
mine atmosphere that causes choking or suffocation due to insufficient oxygen

Note 1 to entry: See Reference [2].[1].

3.1.1.1.4 ~~3.1.1.1.4~~
white damp
damp ~~(ref)~~(3.1.1.1) composed of carbon monoxide (CO)

Note 1 to entry: White damp can be present in the afterdamp ~~(ref)~~ of a gas- or coal-dust explosion, or in the gases given off by a mine fire; also one of the gases produced by blasting.

Note 2 to entry: White damp is an important constituent of illuminating gas, supports combustion, and is very poisonous because it is absorbed by the hemoglobin of the blood to the exclusion of oxygen.

Note 3 to entry: See Reference [2].[1].

3.1.2 ~~3.1.2~~
noxious gas
mine air ~~(ref)~~(3.1.1) that contains gas which is injurious to health

~~[SOURCE: BS 3618 2:1971]~~

3.1.2.1 ~~3.1.2.1~~
ill air
noxious gas, as from underground fires or chokedamp

Note 1 to entry: Ill air stagnant state of the atmosphere underground.

Note 2 to entry: See Reference [2].[1].

3.1.2.2 ~~3.1.2.2~~
stifle
noxious gas (3.1.2) resulting from an underground fire

Note 1 to entry: See Reference [2].[1].

3.1.3 ~~3.1.3~~
foul air
main air contaminated by powder fumes, noxious gases, or respirable dust

Formatted: Font: Bold
Formatted: HeaderCentered
Formatted: TermNum5, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles10]: The term "blackdamp" is used only in terms and definitions section
Formatted: Font: Italic
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
Formatted: Font: Not Italic
Formatted: TermNum5, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles11]: The term "chokedamp" is used only in terms and definitions section
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
Formatted: TermNum5, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles12]: The term "white damp" is used only in terms and definitions section
Formatted: Font: Italic
Formatted: Font: Not Italic
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
Formatted: TermNum3, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles13]: The term "noxious gas" is used only in terms and definitions section
Formatted: Font: Italic
Formatted: TermNum4, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles14]: The term "ill air" is used only in terms and definitions section
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
Formatted: TermNum4, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles15]: The term "stifle" has not been used anywhere in this document
Formatted: Font: Italic
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
Formatted: TermNum3, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles16]: The term "foul air" has not been used anywhere in this document
Formatted: FooterPageNumber

Note 1 to entry: See Reference [2].[1].

3.1.4 ~~3.1.4~~
stythe
mine air ~~(3.1.1)~~(3.1.1) containing carbonic acid gas, often found in old workings and given off in most shallow mines

Note 1 to entry: Also spelled stithe.

Note 2 to entry: See Reference [2].[1].

3.1.5 ~~3.1.5~~
air blast
strong rush of *mine air* ~~(3.1.1)~~(3.1.1) through the workings

Note 1 to entry: Air blasts can occur caused by an explosion, a movement of large masses of strata, an outburst of coal or by a movement of a body of water.

~~[SOURCE: BS 3618 2:1971]~~

3.1.6 ~~3.1.6~~
air current
air flow
flow of *mine air* (3.1.1) ventilating the workings of a mine

~~[SOURCE: BS 3618 2:1971]~~

3.1.6.1 ~~3.1.6.1~~
circulation of mine air
dominated air current

Note 1 to entry: The circulation of air aims to ensure adequate ventilation of all workings and roadways.

Note 2 to entry: See Reference [2].[1].

3.1.6.1.1 ~~3.1.6.1.1~~
re-circulation
continuous *circulation* ~~of mine~~*of mine air* ~~(ref)~~(0) of all or some part of the same air in part of a *mine ventilation system* ~~(ref)~~(3.9.2.1)

~~[SOURCE: BS 3618 2:1971]~~

3.1.7 ~~3.1.7~~
air requirement
quantity of *mine air* ~~(ref)~~(3.1.1) required by law or practical considerations to maintain adequate ventilation of a mine

Note 1 to entry: This quantity will depend on (1) the length of face room in production, (2) the average distance from the shafts to the faces, (3) the gas emission rate, (4) the depth of the workings, (5) the volumetric efficiency of the mine ventilation, (6) heat loads and (7) time to evacuate blast gases.

Note 2 to entry: See Reference [2].[1].

Formatted: English (United Kingdom)
Formatted: HeaderCentered, Left
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
Formatted: TermNum3, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles17]: The term "stythe" has not been used anywhere in this document
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
Formatted: TermNum3, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles18]: The term "air blast" is used only in terms and definitions section
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
Formatted: TermNum3, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles19]: The term "air current" is used only in terms and definitions section
Commented [eXtyles20]: The term "air flow" is used only in terms and definitions section
Formatted: Font: Italic
Formatted: TermNum4, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles21]: The term "circulation of mine air" is used only in terms and definitions section
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
Formatted: TermNum5, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles22]: The term "re-circulation" has not been used anywhere in this document
Formatted: Font: Italic
Formatted: Font: Italic
Formatted: Font: Italic
Commented [eXtyles23]: This TermNum paragraph starts with "3.1.7", but some of the numbers in the range match sections alrea...
Formatted ...
Commented [eXtyles24]: The term "air requirement" has no...
Formatted: Font: Italic
Formatted ...
Formatted: Font: 10 pt
Formatted: Font: 10 pt
Formatted: Font: 10 pt
Formatted ...
Formatted: Font: 11 pt

3.1.8 ~~3.1.8~~
air power
air horsepower
horsepower of ventilation
energy is used in moving *mine air* ~~(ref)~~(3.1.1) between two points of a mine, in "W", "kW" and "hp"

Note 1 to entry: Air power is measured by the quantity circulated multiplied by the ventilating pressure required as follow

$$N = PQ$$

~~Where~~

where

P pressure of air, in Pascal;

Q quantity of air flowing, in cubic meters per second.

3.1.9 ~~3.1.9~~
fugitive air
mine air (3.1.1) moving through the fan that never reaches the working faces

Note 1 to entry: See Reference ~~[2]~~.[1].

3.1.10 ~~3.1.10~~
dead air
stagnant *mine air* (3.1.1)

~~[SOURCE: BS 3618 2:1971]~~

3.1.11 ~~3.1.11~~
return air
mine air ~~(ref)~~(3.1.1) travelling in a return ~~(ref)~~ and typically exhausting to atmosphere

~~[SOURCE: BS 3618 2:1971]~~

3.2 Combustible gases environment

3.2.1 ~~3.2.1~~
combustible gas
firedamp
marsh gas
flammable gas, consisting mainly of methane

Note 1 to entry: Generally, combustible gas is found naturally in coal mines.

Note 2 to entry: If the decaying matter at the bottom of a marsh or pond is stirred, bubbles of methane rise to the surface, thus the name marsh gas.

Note 3 to entry: It is nonexplosive until met with mine air or oxygen and a heat or ignition source.

Note 4 to entry: See Reference ~~[2]~~.[1].

3.2.1.1 ~~3.2.1.1~~
combustible gas migration
movement of *firedamp* (3.2.1) through the strata or the waste left in old mine workings

Formatted: Font: Bold
Formatted: HeaderCentered
Formatted: TermNum3, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles25]: The term "air power" is used only in terms and definitions section
Commented [eXtyles26]: The term "air horsepower" is used only in terms and definitions section
Commented [eXtyles27]: The term "horsepower of ventilation" has not been used anywhere in this document
Formatted: Font: Italic
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
Formatted: Font: Not Italic
Formatted: Table body (+), Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Formatted Table
Formatted: Font: Not Italic
Formatted: Table body (+), Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Formatted: TermNum3, Space Before: 12 pt, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles28]: The term "fugitive air" has not been used anywhere in this document
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Formatted: Font: Italic
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
Formatted: TermNum3, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles29]: The term "dead air" has not been used anywhere in this document
Formatted: Font: Italic
Formatted: TermNum3, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles30]: The term "return air" is used only in terms and definitions section
Formatted: Font: Italic
Formatted ...
Formatted ...
Commented [eXtyles31]: The term "combustible gas" is use ...
Commented [eXtyles32]: The term "firedamp" is used only ...
Commented [eXtyles33]: The term "marsh gas" is used only ...
Formatted ...
Formatted ...
Commented [eXtyles34]: The term "combustible gas ...
Formatted: Font: Italic
Formatted: FooterPageNumber

[SOURCE: BS 3618-2:1971]

3.2.2 3.2.2
combustible gas fringe
zone of contact between the goaf gases and the ventilating *air current* (0) at the face

Note 1 to entry: See Reference [2].[1].

3.2.3 3.2.3
layering of combustible gas
formation of a of *combustible gas layer* (ref)(3.2.3) at the roof of a mine working and above the ventilating air current

Note 1 to entry: See Reference [2].[1].

3.2.3.1 3.2.3.1
combustible gas layer
formation of a of combustible gas layer (ref) at the roof of a mine working and above the ventilating air current

Note 1 to entry: A combustible gases layer can be specified as one in which the gas is 5 % or over and of a length greater than the width of the road in which it occurs on the other hand a combustible gases layer can be specified as one in which the gas is 5 % or over.

Note 2 to entry: Combustible gas layer frequently appears as sheetlike accumulation of combustible gas (ref) where the ventilation is too sluggish to dilute and remove the gas.

Note 3 to entry: See Reference [2].[1].

3.2.3.2 3.2.3.2
roof layer
combustible gas layer (ref)(3.2.3) under the roof of a mine working

Note 1 to entry: Roof layer can flow either with or against the ventilation.

[SOURCE: BS 3618-2:1971, Modified]

3.2.3.2.1 3.2.3.2.1
backing
action of a *roof layer* (ref)(3.2.3.2) of *combustible gases* (3.2.1) flowing uphill against the direction of the ventilation

[SOURCE: BS 3618-2:1971]

3.2.3.3 3.2.3.3
free streaming
combustible gases (3.2.1)*roof layer* (3.2.3.2) flowing under the action of buoyancy without ventilation

Note 1 to entry: See Reference [2].[1].

3.2.4 3.2.4
flammable fringe
explosive fringe
region in a *mine ventilation system* (3.9.2.1) where *mine air* (ref)(3.1.1) or other reactant gas and a flammable gas are present, in which the two gases have mixed to produce a gas capable of propagating flame

[SOURCE: BS 3618-2:1971]

Formatted: English (United Kingdom)
Formatted: HeaderCentered, Left
Formatted: TermNum3, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles35]: The term "combustible gas fringe" has not been used anywhere in this document
Formatted: Font: Italic
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
Formatted: TermNum3, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles36]: The term "layering of combustible gas" has not been used anywhere in this document
Formatted: Font: Italic
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
Formatted: TermNum4, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles37]: The term "combustible gas layer" is used only in terms and definitions section
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
Formatted: TermNum4, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles38]: The term "roof layer" is used only in terms and definitions section
Formatted: Font: Italic
Formatted ...
Formatted ...
Commented [eXtyles39]: The term "backing" has not been ...
Formatted: Font: Italic
Formatted: Font: Italic
Formatted ...
Commented [eXtyles40]: The term "free streaming" has not ...
Formatted: Font: Italic
Formatted: Font: Italic
Formatted ...
Formatted ...
Commented [eXtyles41]: The term "flammable fringe" has ...
Commented [eXtyles42]: The term "explosive fringe" has n ...
Formatted: Font: Italic
Formatted: Font: Italic
Formatted: Font: 10 pt
Formatted: Font: 10 pt
Formatted: Font: 10 pt
Formatted ...
Formatted: Font: 11 pt

3.2.5 ~~3.2.5~~
methane drainage
capture of the concentrated methane through boreholes drilled into a coalbed or associated strata

Note 1 to entry: See Reference ~~[2]~~.[1].

3.2.5.1 ~~3.2.5.1~~
gas emission rate
quantity of methane discharged from the strata and coal seams into the ventilating air of a coal mine

Note 1 to entry: The gas emission rate can be expressed on a time or tonnage basis. Gas emission varies with

— ~~(1)~~ the rate of advance of the workings;

— ~~(2)~~the nature of the face operation such as cutting, blasting, loading, etc. and

— ~~(3)~~ the barometric reading.

Note 2 to entry: See Reference ~~[2]~~.[1].

3.2.6 ~~3.2.6~~
combustible gas drainage
collection of *combustible gas* (3.2.1) from coal measures strata

Note 1 to entry: Combustible gas ~~(ref)~~ drainage, generally is fed into pipes, with or without the use of suction.

Note 2 to entry: See Reference ~~[2]~~.[1].

3.2.7 ~~3.2.7~~
leakage
unintentional diversion of ventilation air from its designed path

~~[SOURCE: BS 3618-2:1971]~~

3.2.7.1 ~~3.2.7.1~~
leakage intake
gate road ventilated by a supervised *leakage* ~~(ref)~~(3.2.7) of air from an intake airway

~~[SOURCE: BS 3618-2:1971]~~

3.2.7.2 ~~3.2.7.2~~
waste drainage
dominated *leakage* (3.2.7) of air through a waste

Note 1 to entry: Waste drainage is carried out to ensure that large concentrations of mine gases do not accumulate in that waste.

~~[SOURCE: BS 3618-2:1971]~~

3.2.8 ~~3.2.8~~
blower
high emission
<combustible gas environment> discharge of gas, normally combustible gas, under pressure

Note 1 to entry: Compare with outburst.

Note 2 to entry: See also venture.

Formatted: Font: Bold
Formatted: HeaderCentered
Formatted: TermNum3, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles43]: The term "methane drainage" has not been used anywhere in this document
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
Formatted: TermNum4, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles44]: The term "gas emission rate" is used only in terms and definitions section
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
Formatted: TermNum3, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles45]: The term "combustible gas drainage" is used only in terms and definitions section
Formatted: Font: Italic
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
Formatted: TermNum3, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles46]: The term "leakage" is used only in terms and definitions section
Formatted: TermNum4, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles47]: The term "leakage intake" has not been used anywhere in this document
Formatted: Font: Italic
Formatted: TermNum4, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles48]: The term "waste drainage" is used only in terms and definitions section
Formatted: Font: Italic
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
Formatted: TermNum3, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers
Commented [eXtyles49]: The term "high emission" has not been used anywhere in this document
Formatted: Adjust space between Latin and Asian text, Adjust space between Asian text and numbers, Tab stops: Not at 0.7 cm + 1.4 cm + 2.1 cm + 2.8 cm + 3.5 cm + 4.2 cm + 4.9 cm + 5.6 cm + 6.3 cm + 7 cm
Formatted: FooterPageNumber