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ISO/TC 82/WG 3

Secretariat: DIN

Date: 2025-03-17xx

Mining — Vocabulary

Part 9: Drainage

Exploitation minière — Vocabulaire —

Partie 9: Drainage

FDIS stage

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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.

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~~

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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.

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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.

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Mining — Vocabulary ~~– Part 9: Drainage —~~

~~Note: Cross references and table of contents will be completed after final editing.~~

Part 9: Drainage

1 Scope

This document specifies the commonly used terms in mine drainage.

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 ~~terminological~~terminology databases for use in standardization at the following addresses:

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

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

3.1 Ground water

3.1.1 ~~3.1.1~~
aquifer
porous water bearing stratum

3.1.2 ~~3.1.2~~
aquifer test
in situ procedure, such as single-well (bail test or slug test) and multiple-well *pumping* (3.3.5.9) tests, used to determine hydraulic properties of an aquifer

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

3.1.3 ~~3.1.3~~
aquifuge
rock that contains no interconnected openings or interstices and therefore neither absorbs nor transmits water

Note 1 to entry: That can be as the opposite of aquifer.

Note 2 to entry: Compare with confining bed.

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

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3.1.4 ~~3.1.4~~
attached ground water
that portion of the subsurface water adhering to the pore walls

Note 1 to entry: It is assumed to be equal in quantity to the pellicular water, and it is measured by specific retention.

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

3.1.5 ~~3.1.5~~
capillary
action by which the surface of a liquid is elevated at the point at which it is in contact with a solid

Note 1 to entry: Such as in a lamp wick.

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

3.1.5.1 ~~3.1.5.1~~
capillarity
capillary action
action by which a fluid, such as water, is drawn up (or depressed) in small interstices or tubes as a result of surface tension

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

3.1.5.2 ~~3.1.5.2~~
zone of capillarity
subsurface zone that overlies the *zone of saturation* (3.1.20) in which *capillary* (3.1.5) voids hold water above the *zone of saturation* (3.1.20) by molecular attraction acting against gravity

Note 1 to entry: Compare with zone of aeration.

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

3.1.6 ~~3.1.6~~
confining bed
aquiclude
impervious stratum above and/or below an aquifer

Note 1 to entry: Compare with aquifuge.

3.1.7 ~~3.1.7~~
connate water
inherent water contemporary with the rocks containing it, as opposed to water subsequently permeating the rocks

Note 1 to entry: Compare with interstitial water and formation water.

3.1.8 ~~3.1.8~~
depressed water level
pumping water level
lowest level of *ground water* (3.1.10) during *drainage* (3.2.3.2) or pumping

3.1.9 ~~3.1.9~~
formation water
native water
water present in a water-bearing formation under natural conditions, as opposed to introduced fluids, such as drilling mud

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Note 1 to entry: Compare with connate water.

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

3.1.10 ~~3.1.10~~
ground water
meteoric water
subterranean water
water penetrating from the surface and filling naturally the pores and fissures of the strata below the water table

3.1.11 ~~3.1.11~~
ground water hydrology
aspect of *hydrology* (3.1.13) which is concerned with the physical and chemical characteristics of water and similar liquids found in the ground

3.1.12 ~~3.1.12~~
ground water province
area or region in which geology and climate combine to produce ground-water conditions consistent enough to permit useful generalizations

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

3.1.13 ~~3.1.13~~
hydrology
study of the movement of water above, on and within the earth's crust

3.1.14 ~~3.1.14~~
interstitial water
pore water
subsurface water in the voids of a rock

Note 1 to entry: Compare with connate water.

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

3.1.15 ~~3.1.15~~
piestic level
level at which water in a confined *aquifer* (3.1.1) will rise under its full hydrostatic head

3.1.16 ~~3.1.16~~
piezometric surface
potentiometric surface
imaginary surface that coincides with the hydrostatic pressure level of the water in a confined *aquifer* (3.1.1)

3.1.16.1 ~~3.1.16.1~~
cone of depression
space enclosed between the water table, at which water would stand naturally in the ground, and the position at which it in fact stands owing to *drainage* (3.2.3.2) or pumping at some point in the vicinity

Note 1 to entry: In the case of confined water under pressure, the cone of depression is the space between the undisturbed piezometric surface ~~(qv)~~ and the piezometric surface after pumping.

3.1.16.2 ~~3.1.16.2~~
piezometer
instrument for measuring pressure head

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Note 1 to entry: Usually consisting of a small pipe tapped into the side of a closed or open conduit and flush with the inside; connected with a pressure gage, mercury, water column, or other device for indicating head.

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

3.1.17 ~~**3.1.17**~~
secondary water
water entering the mine from other workings, as opposed to water inherent in the area worked by the mine

3.1.18 ~~**3.1.18**~~
water table
free water elevation
free water surface
ground water level
ground water surface
ground water table
level of saturation
phreatic surface
plane of saturation
saturated surface
plane or surface below which fissures and pores in the strata are naturally saturated with water

3.1.18.1 ~~**3.1.18.1**~~
perched water table
water table (3.1.18) of a body of perched ground water

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

3.1.18.1.1 ~~**3.1.18.1.1**~~
perched ground water
perched water
unconfined *ground water* (3.1.10) separated from an underlying main body of *ground water* (3.1.10) by an unsaturated zone

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

3.1.18.2 ~~**3.1.18.2**~~
water table contour
line drawn on a map to represent an imaginary line in the *water table* (3.1.18) of a definite level.

Note 1 to entry: These contours are constructed from the data provided by the water-table levels, corrected for differences in surface level at the respective boreholes. A site investigation or opencast plan sometimes show water-table contours.

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

3.1.18.3 ~~**3.1.18.3**~~
water table level
level showing the depth of the *water table* (3.1.18) below the surface

Note 1 to entry: Also is the depth at which water is encountered in trial pits or boreholes.

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

3.1.18.4 ~~**3.1.18.4**~~
water table map
contour map of the upper surface of the saturated zone

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

3.1.18.5 ~~3.1.18.5~~
water table stream
concentrated *ground water* (3.1.10) flow at the *water table* (3.1.18) in a formation or structure of high permeability

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

3.1.19 ~~3.1.19~~
zone of aeration
subsurface zone containing water under pressure less than that of the atmosphere, including water held by capillarity, and containing air or gases generally under atmospheric pressure

Note 1 to entry: This zone is limited above by the land surface and below by the water table. It contains vadose water.

Note 2 to entry: Compare with zone of capillarity.

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

3.1.19.1 ~~3.1.19.1~~
vadose water
suspended water
water of the zone of aeration

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

3.1.20 ~~3.1.20~~
zone of saturation
phreatic zone
saturated zone
subsurface zone in which all the interstices are filled with water under pressure greater than that of the atmosphere

Note 1 to entry: This zone is separated from the zone of aeration ~~(above)~~ by the water table.

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

3.2 Drainage planning

3.2.1 Pumps planning

3.2.1.1 ~~3.2.1.1~~
booster pump
pump that operates in the discharge line of another pump, either to increase pressure or to restore pressure lost by friction in the line or by lift

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

3.2.1.2 ~~3.2.1.2~~
booster station
in long-distance *pumping* (3.3.5.9) of liquids or mineral slurries, an intermediate pump station

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

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3.2.1.3 ~~3.2.1.3~~
hogger pump
topmost pump in a shaft

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

3.2.1.4 ~~3.2.1.4~~
pump chamber
underground *pumping* (3.3.5.9) station

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

3.2.1.5 ~~3.2.1.5~~
pitwright
plugman
person who operates one or a battery of pumps to force excess water from a lower level to the surface or to a *drainage* ~~tunnel~~(3.2.3.2) tunnel

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

3.2.1.6 ~~3.2.1.6~~
pumping head
~~in an~~ <airlift~~, the~~> distance from the surface to the level of the water during *pumping*~~, it~~ (3.3.5.9)

Note 1 to entry: It equals static head plus drop.

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

3.2.1.7 ~~3.2.1.7~~
pumping shaft
shaft containing the *pumping* (3.3.5.9) machinery of a mine

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

3.2.1.8 ~~3.2.1.8~~
pump lift
vertical distance that a pump can suck up water or the vertical distance a pump can force water to flow

Note 1 to entry: Theoretically, the vertical distance that a pump can suck up water should be about 10,4 m at sea level but practically, the limit is about 7,9 m.

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

3.2.1.9 ~~3.2.1.9~~
pump load
back pressure and/or resistance to flow of fluids that a pump must overcome to force a fluid to flow through a pipeline, drill string, etc.

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

3.2.1.10 ~~3.2.1.10~~
pump pressure
force per unit area or pressure against which a pump acts to force a fluid to flow through a pipeline, drill string, etc.

Note 1 to entry: Also, it's the pressure imposed on the fluid ejected from a pump.

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