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AS/NZS 60079.10.2:2011 Explosive atmospheres - Part 10.2: Classification of areas - Combustible dust atmospheres

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Abbreviation

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Description

This Standard enables the identification and classification of areas where explosive dust atmospheres and combustible dust layers are present, in order to permit the proper assessment of ignition sources in such areas.

Scope

This part of IEC 60079 is concerned with the identification and classification of areas where explosive dust atmospheres and combustible dust layers are present, in order to permit the proper assessment of ignition sources in such areas.

In this standard, explosive dust atmospheres and combustible dust layers are treated separately. In Clause 4, area classification for explosive dusts clouds is described, with dust layers acting as one of the possible sources of release. In Clause 7, the hazard of dust layer ignition is described.

The examples in this standard are based on a system of effective housekeeping being implemented in the plant to prevent dust layers from accumulating. Where effective housekeeping is not present, the area classification includes the possible formation of explosive dust clouds from dust layers.

The principles of this standard can also be followed when combustible fibres or flyings may cause a hazard.

This standard is intended to be applied where there can be a risk due to the presence of explosive dust atmospheres or

combustible dust layers under normal atmospheric conditions.

It does not apply to

- underground mining areas,
- areas where a risk can arise due to the presence of hybrid mixtures,
- dusts of explosives that do not require atmospheric oxygen for combustion, or to pyrophoric substances,
- catastrophic failures which are beyond the concept of abnormality dealt with in this standard,
- any risk arising from an emission of flammable or toxic gas from the dust.

This standard does not take into account the effects of consequential damage following a fire or an explosion.

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[Table of Contents](#) [View on Information Provider website](#) [{{ linkText }}](#)

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[Back](#)

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[AS/NZS 60079.10.2:2011 Explosive atmospheres - Part 10.2: Classification of areas - Combustible dust atmospheres](#)

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Back

Close

Table of Contents

1 Scope

2 Normative References

3 Terms And Definitions

4 Area Classification

4.1 General

4.2 Area Classification Procedure For Explosive Dust Atmospheres

5 Sources Of Release

5.1 General

5.2 Dust Containment

5.3 Identification And Gradation Of Sources Of Release

6 Zones

6.1 General

6.2 Zones

6.3 Extent Of Zones

6.3.1 General

6.3.2 Zone 20

6.3.3 Zone 21

6.3.4 Zone 22

7 Dust Layer Hazard

8 Documentation

8.1 General

8.2 Drawings, Data Sheets And Tables

Annexes

Annex A (Informative) Area Classification Application

Annex B (Informative) Risk Of Fire From Hot Surface Ignition Of Dust Layer

Annex C (Informative) Housekeeping 23

Annex D (Informative) Introduction Of An Alternative Risk Assessment Method Encompassing ‘Equipment Protection Levels’ For Ex Equipment

Bibliography

Figures And Tables

Figure 1 – Identification Of Zones On Drawings

Figure A.1 – Bag Emptying Station Within A Building And Without Exhaust Ventilation

Figure A.2 – Bag Emptying Station With Exhaust Ventilation

Figure A.3 – Cyclone And Filter With Clean Outlet Outside Building

Figure A.4 – Drum Tipper Within A Building Without Exhaust Ventilation

Table 1 – Designation Of Zones Depending On Presence Of Dust

Table D.1 – Traditional Relationship Of EPLs To Zones (No Additional Risk Assessment)

Table D.2 – Description Of Risk Of Ignition Protection Provided

[Save](#)

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[Feedback](#)