

(PREVIEW)

# *Indian Standard*

## **EXPLOSIVE ATMOSPHERES**

### **PART 17 ELECTRICAL INSTALLATIONS INSPECTION AND MAINTENANCE**

#### **1 Scope**

This part of IEC 60079 applies to users and covers factors directly related to the inspection and maintenance of electrical installations within hazardous areas only, where the hazard may be caused by flammable gases, vapours, mists, dusts, fibres or flyings.

It does not include:

- other fundamental installation and inspection requirements for electrical installations;
- the verification of electrical equipment;
- the repair and reclamation of explosion protected equipment (see IEC 60079-19).

This standard supplements the requirements of IEC 60364-6.

In the case of dusts fibres or flyings the level of housekeeping may influence the inspection and maintenance requirements.

This standard is intended to be applied where there can be a risk due to the presence of explosive gas or dust mixtures with air 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 ,
- pyrophoric substances.

#### **2 Normative references**

The following referenced documents are indispensable for the application of this document For dated references, only the edition cited applies. For undated references the latest edition of the referenced document (including any amendments) applies.

IEC 60079-0, *Explosive atmospheres - Part 0: Equipment - General requirements*

IEC 60079-1, *Explosive atmospheres - Part 1: Equipment protection by flameproof enclosure' "d"*

IEC 60079-2, *Explosive atmospheres - Part 2: Equipment protection by pressurized enclosures "p"*  
IEC 60079-7, *Explosive atmospheres - Part 7: Equipment protection by increased safety "e"*

IEC 60079-10, *Electrical apparatus for explosive gas atmospheres - Part 10: Classification of hazardous areas*

IEC 60079-11 . *Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"*

IEC 60079-14. *Electrical apparatus for explosive gas atmospheres - Part 14: Electrical installations in hazardous areas (other than mines)*

IEC 60079-15, *Electrical apparatus for explosive gas atmospheres - Part 15: Construction, test and marking of type of protection "n" electrical apparatus*

IEC 60079-19, *Explosive atmospheres - Part 19: Equipment repair, overhaul and reclamation*

IEC 60364-6. *Low-voltage electrical installations - Part 6: Verification*

IEC 61241 (all parts), *Combustible dust*

IEC 61241-1. *Electrical apparatus for use in the presence of combustible dust – Part 1: Protection by enclosures "tD"*

IEC 61241 -4. *Electrical apparatus for use in the presence of combustible dust - Part 4: Type of protection "pD"*

IEC 61241-10, *Electrical apparatus for use in the presence of combustible dust - Part 10: Classification of areas where combustible dusts are or may be present*

IEC 61241-11 . *Electrical apparatus for use in the presence of combustible dust - Part 11: Protection by intrinsic safety "iD"*

IEC 61241-14:2004, *Electrical apparatus for use in the presence of combustible dust Part 14: Selection and installation*