## 1 Scope

This standard ~~part of IEC 60079~~ specifies the requirements for the construction and testing of oil-immersed electrical equipment, oil-immersed parts of electrical equipment and Ex components in the type of protection oil immersion "o", intended for use in explosive gas atmospheres.

NOTE Type of protection oil immersion “o” provides equipment protection level (EPL) Gb. For further information, see Annex A.

This standard supplements and modifies the general requirements of ANSI/ISA-60079-0 ~~IEC 60079-0~~. Where a requirement of this standard conflicts with a requirement of ANSI/ISA-60079-0 ~~IEC 60079-0~~, the requirement of this standard takes precedence.

This standard is applicable to electrical equipment, parts of electrical equipment, and Ex components which, in the absence of oil immersion, are not ignition capable in normal operation as determined by ANSI/ISA-60079-15 ~~IEC 60079-15~~ or ANSI/ISA-60079-11 ~~IEC 60079-11~~.

## 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.

ASTM D3487, Mineral Insulating Oil Used in Electrical Apparatus

~~IEC 60079-0:2004, Electrical apparatus for explosive gas atmospheres – Part 0: General requirements~~

ANSI/ISA-60079-0 (12.00.01)-2005, Electrical apparatus for Use In Class I, Zones 0, 1, & 2 Hazardous (Classified) Locations General Requirements

~~IEC 60079-7, Explosive atmospheres – Part 7: Equipment protection by increased safety "e"~~

ANSI/ISA-60079-7 (12.16.01), Electrical apparatus for Use In Class I, Zone 1, Hazardous (Classified) Locations – Increased safety “e”

~~IEC 60079-11, E*xplosive atmospheres – Part 11: Equipment protection by intrinsic safety "i"*~~

ANSI/ISA-60079-11 (12.02.01), Electrical apparatus for Use In Class I, Zone 1, Hazardous (Classified) Locations – Intrinsic safety “i”

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

ANSI/ISA-60079-15 (12.12.02), Electrical Apparatus for Use in Class I, Zone 2 Hazardous (Classified) Locations - Type of Protection "n"

ANSI/UL 2225, *Cables and Cable-Fittings For Use In Hazardous (Classified) Locations*

IEC 60156, *Insulating liquids –Determination of the breakdown voltage at power frequency – Test method*