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INTERNATIONAL ELECTROTECHNICAL COMMISSION

TECHNICAL COMMITTEE 31 EQUIPMENT FOR EXPLOSIVE ATMOSPHERES

DRAFT INTERPRETATION SHEET

IEC 60079-0:2017 (Ed 7) Explosive atmospheres – Part 0: General requirements

This draft for an interpretation sheet has been prepared by IEC technical committee 31: Equipment for explosive atmospheres in accordance with Administrative Circular AC/42/2004 new procedures for Interpretation of standards Annex 2: New text for ISO/IEC Directives (IEC Supplement).

There has been a request for formal interpretation of the applicability of the “Resistance to Ultraviolet Light” test to cement materials.

Comments / proposals should be submitted using the IEC Electronic voting system by the National Committees (See AC/3/2011).

Comments/ proposals to be returned by 2019-08-09

Yours sincerely

A handwritten signature in black ink that reads 'M. Maghar'.

M Maghar
Secretary IEC/TC 31

1 **IEC 60079-0:2017 (Ed 7) Part 0: General requirements**

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3 **Interpretation of sub-clauses 17.1.2, 7.3, & 26.10:**

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5 **Question:** What is the intention where neither 7.1.2 nor 26.10 appear to contemplate application of
6 7.3 to materials used for cementing, but 7.3 appears to suggest that it applies to materials used for
7 cementing, as being a “part of enclosure, of non-metallic material”.

8
9 **Answer:** 7.3 also says, “Gaskets and seals, constructed such that only an outer edge is potentially
10 exposed to light, are not subject to the resistance to ultraviolet light requirements” and, in NOTE 1,
11 says, “Internal parts of enclosures, not directly exposed to UV light, do not generally suffer a
12 deleterious effect”.

13
14 Most cementing materials will only ever have an outer edge exposed. In the case of cementing
15 material visible through glass, it is considered that, in general, glass will sufficiently attenuate the
16 UV component of the light spectrum such that it does not suffer deleterious effects. However,
17 special precautions may be necessary if the cementing material is visible through a specialized
18 glass which is fitted for its ability to transmit the UV component of the light spectrum.

19
20 Other than the exceptional circumstance where UV light can be transmitted to the cementing
21 material through special UV light transmitting glass, the requirements of 7.3 do not apply to
22 materials used for cementing.

23
24 It is recommended that care should be taken in the design of equipment using special UV
25 transmitting glass to ensure that cementing material does not get exposed through the glass.

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28 *IEC TC31 WG22 will seek to improve the clarity of the text in the standard for the next edition.*
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