

IEC 60079-20-1
(First edition – 2010)

**Explosive atmospheres –
Part 20-1: Material characteristics for gas
and vapour classification –Test methods and data**

CORRIGENDUM 1

4.4 Classification according to MESG and MIC

Replace the existing second and third paragraphs by the following:

One determination is adequate when:

- Group IIA: MESG \geq 0,9 mm, or MIC $>$ 0,9;
- Group IIB: $0,55 \text{ mm} \leq \text{MESG} < 0,9 \text{ mm}$, or $0,5 \leq \text{MIC} \leq 0,8$;
- Group IIC: MESG $<$ 0,5 mm, or MIC $<$ 0,45.

Determination of both the MESG and MIC ratio is required when:

- for IIA: $0,8 \leq \text{MIC} \leq 0,9$ need to confirm by MESG;
- for IIB: $0,45 \leq \text{MIC} \leq 0,5$ need to confirm by MESG;
- for IIC: $0,5 \leq \text{MESG} < 0,55$ need to confirm by MIC;

Table 1 – Classification of temperature class and range of auto-ignition temperatures

Replace the first row of Table 1 by the following:

Temperature class	Range of auto-ignition temperature (AIT) °C
T1	> 450

Annex B – Tabulated values

Replace in the row for CAS-No.75-29-6 the tabulated value for MESG and in the row for CAS-No. 107-31-3 the tabulated value for temp. class, as follows:

CAS- No.	Name formula	MESG [mm]	Temp. class
75-29-6	2-Chloropropane (CH ₃) ₂ CHCl	1,23	T1
107-31-3	Formic acid methyl ester (= Methyl formate) (= Methyl methanoate) HCOOCH ₃	0,94	T1