**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 ≥ 0,9 mm, or MIC > 0,9;

Group IIB: 0,55 mm ≤ MESG < 0,9 mm, or 0,5 ≤ MIC ≤ 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 ≤ MIC ≤ 0,9 need to confirm by MESG;

for IIB: 0,45 ≤ MIC ≤ 0,5 need to confirm by MESG;

for IIC: 0,5 ≤ 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 $(CH_3)_2CHCl$ | 1,23 | T1 |
| 107-31-3 | Formic acid methyl ester (= Methyl formate) (= Methyl methanoate) $HCOOCH_3$ | 0,94 | T1 |