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## Gas group (sixth field)

- I: Methane
- IIA: Propane
- IIB: Ethylene
- IIC: Hydrogen, Acetylene

## **Temperature class (seventh field)**

T1:	Surface temperature of equipment ≤ 450°C
T2:	Surface temperature of equipment ≤ 215°C
Т3:	Surface temperature of equipment ≤ 160°C
T4:	Surface temperature of equipment ≤ 120°C
T5:	Surface temperature of equipment ≤ 100°C
т6:	Surface temperature of equipment ≤ 85°C

Ignition temperature of flammable substances <  $450^{\circ}$ C Ignition temperature of flammable substances  $215^{\circ}$ C <  $T2 \le 450^{\circ}$ C Ignition temperature of flammable substances  $160^{\circ}$ C <  $T3 \le 215^{\circ}$ C Ignition temperature of flammable substances  $120^{\circ}$ C <  $T4 \le 160^{\circ}$ C Ignition temperature of flammable substances  $100^{\circ}$ C <  $T5 \le 120^{\circ}$ C Ignition temperature of flammable substances  $85^{\circ}$ C <  $T6 \le 100^{\circ}$ C

## Equipment protection level [EPL] (eighth field)

- **Ga:** Equipment for explosive atmospheres due to the presence of gas, with a level of protection 'very high', which is not a source of ignition in normal operation, or in case of expected failure or when subjected to a rare failure.
- **Gb:** Equipment for use in explosive atmospheres due to the presence of gas, with a 'high' level of protection that is not the source of ignition in normal operation or when subject to expected malfunctions, although not on a regular basis.
- **Gc:** Equipment for use in explosive atmospheres due to the presence of gas, with a level of protection "increased" that is not a source of ignition in normal operation. It has some additional security measures in order to ensure that it remains a source of ignition not active in case of expected events on a regular basis.

## **Example of ATEX ZONE classification**



**ZONE 0** – A place in which an explosive atmosphere consisting of a mixture with air of dangerous substances in the form of gas, vapors or mist is present continuously or for long periods or frequently

**ZONE 1** – A place in which an explosive atmosphere consisting of a mixture with air of dangerous substances in the form of gas, vapors or mist is likely to occur in normal operation occasionally.

**ZONE 2** – A place in which an explosive atmosphere consisting of a mixture with air of dangerous substances in the form of gas, vapors or mist is not likely to occur in normal operation but, if it does occur, will persist for a short period only.