

Which type of hazardous location classification system does your company use?

NEC

IEC/ATEX

First determine the Class: What type of hazardous substance is present?

What type of hazardous substance is present?

Gases/Vapors (Class I)

Dust (Class II)

Fibers or flyings (Class III)

Gases/Vapors (zones 0, 1, or 2)

Dust (zones 20, 21, or 22)

Now determine the division: How often is the hazardous substance present?

How often is the hazardous substance present

On a normal basis - continuously or for long periods

Only in abnormal circumstances - when the substance escapes from a closed container

Continuously or for long periods in normal operations

Likely that it will be present some of the time in normal operations

Not likely in normal operations

Division 1

Division 2

Gases/Vapors zone 0  
Dust: zone 20

Gases/Vapors zone 1  
Dust: zone 21

Gases/Vapors zone 2  
Dust: zone 22

## What industries use ATEX zones?



Manufacturing



Oil & Gas



Pharmaceutical



Chemical

# ZONE 0



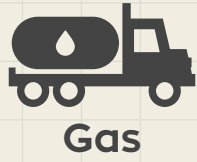
Flammable



Explosive



Area in which an explosive atmosphere with a mixture of air and flammable substances in the form of gas, vapour or fog is present, either constantly or in the long term.



Gas

# ZONE 1



Flammable



Explosive



Area in which it must be assumed that an explosive atmosphere with a mixture of air and flammable substances in the form of gas, vapour or fog arises during normal operation.

# ZONE 2



Flammable



Explosive



Area in which it must be not assumed that an explosive atmosphere with a mixture of air and flammable substances in the form of gas, vapour or fog arises during normal operation and if so, then only rarely and for a short time.

# ZONE 20



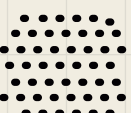
Flammable



Explosive



Area in which there is an explosive atmosphere in the form of a cloud of flammable dust in the air, constantly, in the long term or frequently.



Dust

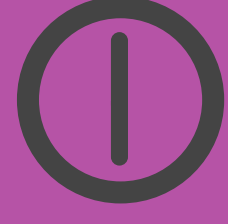
# ZONE 21



Flammable



Explosive



Area in which is must be assumed that an explosive atmosphere in the form of a cloud of flammable dust in air sometimes occurs during normal operation.

# ZONE 22



Flammable



Explosive



Area in which is must not be assumed that an explosive atmosphere in the form of a cloud of flammable dust in air sometimes occurs during normal operation, and if this happens, then only for a short time.