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Manufacturer's Obligations under directive 1999/92/EC

- 1. Prevent the formation of explosive atmospheres in the workplace
 - Avoid the ignition of explosive atmospheres and

Control the effects of explosions

- 2. Conduct a risk assessment covering:
 - the likelihood of explosive atmospheres occurring and their persistence
 - the like lihood of a source of ignition
 - the effect of an ignition on plant, personnel and the environment
- 3. Classify the work place Zones
- 4. Mark areas with signs at points of entry
- 5. Maintain an explosion protection document including:
 - a. risk assessment and identification of zones
 - b. area classification
 - c. maintenance schedules
 - d. documentation of requirements for training staff and instituting a system of permits to work
- 6. Select ATEX 100a compliant equipment according to identified zone

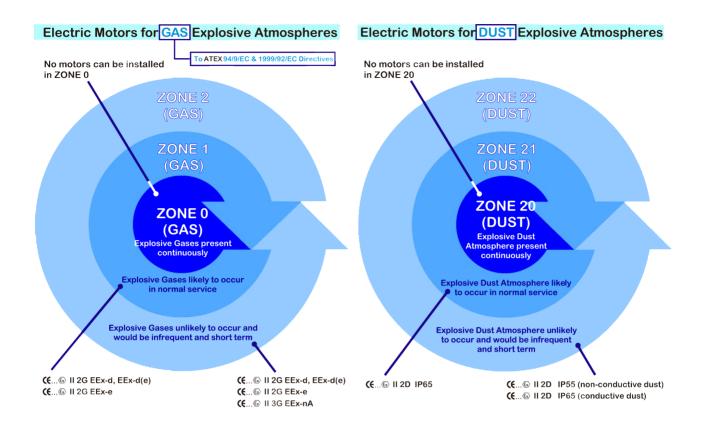
EQUIPMENT GROUPS & TEMPERATURE CLASSES REQUIRED FOR SOME COMMON FLAMMABLE MATERIALS

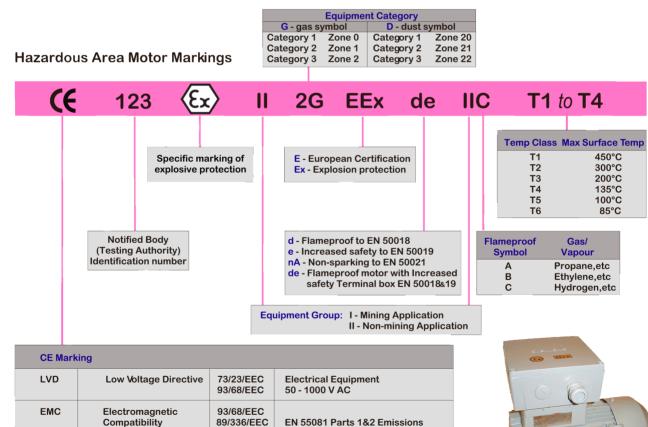
	Equipment	Temperature
Gas/Vapour	Group	Class required
	requirement	
Ascetic Acid	- IIA	T1
Acetone	IIA	T1
Acetylene	IIC	T2
Amnonia	IIA	T1
Butane	IIA	T2
C yclohe xane	IIA	T3
Ethanol (ethyl alcohol)	IIA	T2
Ethylene	IIB	T2
Hydrogen	IIC	T1
Kerosene	IIA	T3
Methane (natural gas) -non mining	IIA	T1
Methanol (methyl alcohol)	IIA	T1
Methyl ethyl keton (MEK)	IIA	T1
Propane	IIA	T1
Propan-1-ol (n-propyl alcohol)	IIB	T2
Propan-2-ol (iso-propyl alcohol)	IIA	T2
Tetrahydrofuran (THF)	IIB	T3
Tolune	IIA	T1
Xylene	IIA	T1

Dust	Ignition Temperature	
	Cloud	Layer
Aluminium	590°C	>450°C
Coal dust (lignite)	380°C	225°C
Flour	490°C	340°C
Grain dust	510°C	300°C
Methyl cellulose	420°C	320°C
Phenolic resin	530°C	>450°C
Polythene	420°C	(melts)
PVC	700°C	>450°C
Soot	810°C	570v
Starch	460°C	435°C
Sugar	490°C	460°C









EN 55082 Parts 1&2 Immunity

Hazardous area equipment

Not applicable to electric motors as they are components

92/31/EEC

various

94/9/EC

Machinery Directive

ATEX Directive

MD

ATEX