



### Groups of gas

Various substances may be flammable due to occurring energy . The most dangerous substances are these flaming with the least energy.

The directive divides equipment into two groups. Group I is applied for mining, and Group II for Surface industries. Group II is divided in subgroup (from the leak risk level IIA to the high level IIC).

Our ATEX solution ANATOM78SEEx and AWAX26XXLEEx comply with the highest risk level groupe IIC.

### Temperature Classes

Various substances may ignite in different temperatures. These substances are considered as the most dangerous ones when they may ignite under very low temperature. The temperature class is indicated by a marking on the equipment.

The maximum surface temperature of apparatus must be lower than this of self-ignitable mixtures being present in the dangerous area.

Materials used in explosive atmosphere are classified from T1 to T6 according to their generated maximum surface temperature. (See table 3). Materials in class T6 (the lowest temperature) are the most dangerous and may be obviously used for other classes (T1 to T5). The equipment marked with EEx...IIC T6 can be used for any mixture of atmospheres existing.

In explosive dust atmosphere, the maximum surface temperature is mentioned in °C.

TABLE 3						
GROUPS OF DANGEROUS ZONES	TEMPERATURE CLASSES					
	T1	T2	T3	T4	T5	T6
MAXIMUM TEMPERATURE OF SURFACE	450°C	300°C	200°C	135°C	100°C	85°C
<b>II A</b>	Acetone Ammoniac Benzene Acetic acid Ethane Acetate of ethyl Ethyl chloride Methanol Naphthalene Phenol Propane	I-Amyl acetate Butane Alcool Butyl	Petrol Gazoil Hot oil Hexane	Acetaldehyde		
<b>II B</b>	City gas Gas for lighting	Ethylene	Hydrogen sulfide	Diethyl ether		
<b>II C</b>	Hydrogen	Acetylene				Carbon bisulphide
<b>ANATOM78SEEXPL+AWAX26XXLEEX APPLICATION ZONE</b>						