

GAS GROUP CLASSIFICATION

ESE CENELEC EN 50014		IS/IEC600079-0:2004		USA NEC (National Electrical Code)			
Products	Group	Products	Group	Products	Class	Division	Group
Methane (fire damp)	I	Methane (fire damp)	I	Inflammable fibres and cloth	III	1 - 2	
				Combustible powders	II	1 - 2	EFG
Acetone Industrial methane Ethyl acetate Methanol Butane Propane Hexane Ammonia Carbon monoxide, Pentane, Heptane, Iso-octane, Decane, Benzene, Xylene, Cyclohexane, Ethyl Methyl acetate, N-Propyl acetate, N-butyl acetate, Amyl acetate, Ethyl nitride Ethanol Methyl Ketone Ethyl Nitride	IIA	Acetone Industrial methane Ethyl acetate Methanol Butane Propane Hexane Ammonia Carbon monoxide, Pentane, Heptane, Iso-octane, Decane, Benzene, Xylene, Cyclohexane, Ethyl Methyl acetate, N-Propyl acetate, N-butyl acetate, Amyl acetate, Methylene chloride, Butanol, Ethyl nitride, Isobutanol, Amyl alcohol, Butyl alcohol, Ethyl alcohol, Blast furnace gas	IIA	Methane Acetone Butyl alcohol Ethyl alcohol Ethyl acetate Methanol Butane Propane Hexane Acrylonitrile ammoniac gas, Benzene, Butyl alcohol2, Butyl acetate, Isobutyl acetate, Ethane, Ethylene chloride, Petrol, Heptane, Isoprene, Iso-amyl alcohol, Ethylethylketone, Methylisobutylketone, Isobutyl alcohol, 3-butyl alcohol, Petroleum naphtha Octanes, Pentanes, Amyl alcohol, Propylene, Isopropyl alcohol, Propyl alcohol Styrene, Toluene, Vinyl acetate, Vinyl chloride, Xylene	I	1 - 2	D
Ethylene Butadiene 1.3, Diethyl ether, Ethylene oxide, Coke oven gas		IIIB		Ethylene Butadiene 1.3, Ethylene oxide, Coke oven gas, Town gas, Diethyl ether,			

Hydrogen	IIC	IIB + H₂	Hydrogen Carbon disulphide CS ₂ Acetylene C ₂ H ₂ , Ethyl nitrate	IIC	Hydrogen Butadiene, Ethylene oxide, Propylene oxide	I	1 - 2	B
Carbon disulphide		IIB + CS₂						
Acetylene		IIB + C₂H₂						
Ethyl nitrate		IIB + C₂H₅ ON₀₂						