



Class I Division 1 Groups A, B, C & D



FLAMMABLE GASES & VAPORS

1. Ignitable concentrations of flammable gases or vapors may exist under normal operating conditions.
2. Ignitable concentrations of such gases or vapors may exist frequently because of repair or maintenance operations or because of leakage.
3. Breakdown or faulty operation of equipment or processes might release ignitable concentrations of flammable gases or vapors, and might also cause simultaneous failure of electric equipment.

GAS & VAPOR VOLATILITY TEMPERATURE CHART

Gas Type by Volatility	Typical Self Ignition - °C/°F	
Carbon Disulphide	90°C	194°F
Ethyl Nitrate	90°C	194°F
Butane	287°C	548°F
Acetylene	300°C	572°F
Ethyl Acetate	425°C	797°F
Acetone	465°C	869°F
Benzene	498°C	928°F
Hydrogen	500°C	932°F
Industrial Methane	535°C	995°F
Carbon Monoxide	605°C	1,121°F
Ammonia	650°C	1,202°F

CLASS I Groups

Group A	Group B	Group C	Group D
<ul style="list-style-type: none"> • Acetylene 	<ul style="list-style-type: none"> • Hydrogen • Butadine • Ethylene Oxide • Propylene Oxide • Acrolien 	<ul style="list-style-type: none"> • Ethylene • Cyclopropane • Ethyl Ether 	<ul style="list-style-type: none"> • Propane • Acetone • Ammonia • Benzene • Butane • Ethanol • Gasoline • Hexane • Methanol • Naptha • Natural Gas • Toluene

TEMPERATURE (T)-RATING CHART

T-Code Identification #		Maximum Surface Temperature	
IEC NEC® 505	NEC 500 Table 500.8(C)	Celsius	Fahrenheit
T1	T1	450°C	842°F
T2	T2	300°C	572°F
	T2A	280°C	536°F
	T2B	260°C	500°F
	T2C	230°C	446°F
	T2D	215°C	419°F
T3	T3	200°C	392°F
	T3A	180°C	356°F
	T3B	165°C	329°F
	T3C	160°C	320°F
T4	T4	135°C	275°F
	T4A	120°C	248°F
T5	T5	100°C	212°F
T6	T6	85°C	185°F



Product Line-Up in this Class / Division

