



Class II Division 1 Groups E, F & G



COMBUSTIBLE DUSTS

1. Where combustible dust is present in the air under normal operating conditions in such a quantity as to produce explosive or ignitable mixtures. This could be on a continuous, intermittent or periodic basis.
2. Where an ignitable and/or explosive mixture could be produced if a mechanical failure or abnormal machinery operation occurs.
3. Where electrically conductive dusts in hazardous concentrations are present.

COMBUSTIBLE DUST VOLATILITY CHART

Dust Type by Volatility of Cloud Layer	Typical Self Ignition Temperature	
	Cloud	Layer
Lignite	380°C/716°F	225°C/437°F
Lead	460°C/860°F	240°C/464°F
Cellulose	490°C/914°F	430°C/806°F
Flour	490°C/914°F	430°C/806°F
Cocoa	500°C/932°F	200°C/392°F
Polyacrylonitrile	540°C/1,004°F	400°C/752°F
Soya Meal	540°C/1,004°F	340°C/644°F
Zinc	570°C/1,058°F	440°C/824°F

CLASS II Groups

Group E	Group F	Group G
<ul style="list-style-type: none"> • Aluminum • Magnesium • Commercial Alloys 	<ul style="list-style-type: none"> • Coal • Carbon Black • Charcoal • Coke Dusts 	<ul style="list-style-type: none"> • Flour • Grain • Wood • Plastic • Chemicals
<ul style="list-style-type: none"> • Combustible Metal Dusts • Dusts 	<ul style="list-style-type: none"> • Combustible Carbonaceous Dusts 	<ul style="list-style-type: none"> • Other Combustible

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

hazardousLOCATION Product Line-Up in this Class / Division

