SOLAS RAY™

Class 2 Division ONE

Groups E, F & G

C2/D1

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.

Class 2 Groups

Group E

- Aluminum
- Magnesium
- Commercial Alloys
- Combustible Metal Dusts

Group F

- Coal
- Carbon Black
- Charcoal
- Coke Dusts
- Combustible Carbonaceous Dusts

Group G

- Flour
- Grain
- Wood
- Plastic
- Chemicals
- Other Combustible Dusts

COMBUSTIBLE DUST Volatility Temperature 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
Polyacrylonitrate	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

T - RATING CHART

T-CODES NEC 505	T-CODES NEC 500	MAX Surface Temperature
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