SOLAS RAY™

Class 2
Division TWO
Groups E, F & G

C2/D2

# Combustible Dusts

1. Combustible dust will not normally be in suspension in the air in quantities sufficient to produce explosive or ignitable mixtures, and dust accumulations will normally be insufficient to interfere with the normal operation of electric equipment or other apparatus, but combustible dust may be in suspension in the air as a result of infrequent malfunctioning of handling or processing equipment.

2. Resulting combustible dust accumulations on, in or in the vicinity of the electric equipment may be sufficient to interfere with the safe dissipation of heat from electric equipment or may be ignitable by abnormal operation or failure of electric equipment.

## Class 2 Groups

### Group E
- Aluminum
- Magnesium
- Commercial Alloys
- Combustible Metal Dusts

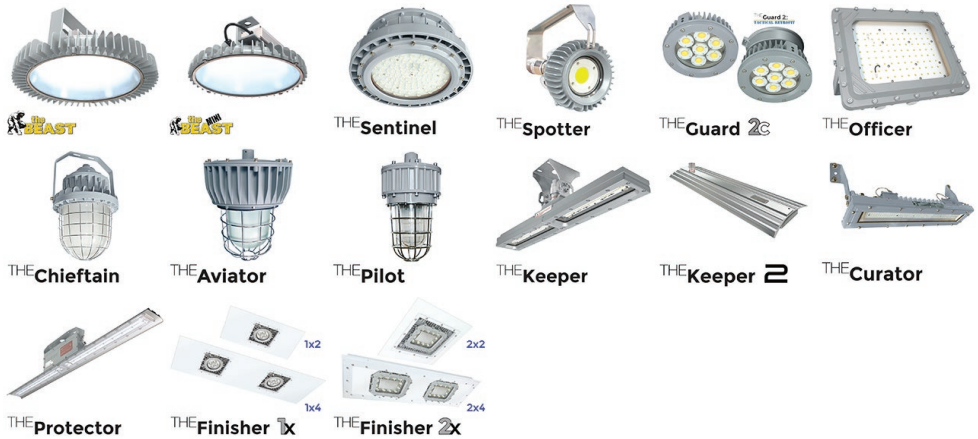
### Group F
- Coal
- Carbon Black
- Charcoal
- Coke Dusts
- Combustible Carbonaceous Dusts

### 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 |

LED hazardous LOCATION lighting EQUIPMENT | C2/D2




## 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 |

SOLAS RAY™ LIGHTING



PRINT DOCUMENT

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