

Dust Explosivity Testing & Consulting



OSHA, NEP & NFPA 654 Testing Services Offered:

- ✦ **ASTM E 1226
Explosion Severity Test - (K_{St} , P_{max} and dP/dt)**
 - Determines values necessary for designing protective measures, such as deflagration venting.
- ✦ **ASTM E 2019
Minimum Ignition Energy - (MIE)**
 - Assesses the ignition potential of a material from the hazard of an electrostatic spark discharge.
- ✦ **ASTM E 1515
Minimum Explosible Concentration - (MEC)**
 - Identifies the minimum hazardous concentration of a dust cloud that will sustain combustions.
- ✦ **ASTM E 1491
Minimum Autoignition Temperature of a Dust Cloud - (MAIT)**
 - Determines safe operating temperatures at which a dust cloud will not autoignite.
- ✦ **ASTM E 2021
Hot Surface Ignition Temperature of Dust Layers - (AIT)**
 - Identifies dangerous operating temperatures at which a dust layer will self heat.
- ✦ **Limiting Oxygen Concentration - (LOC)**
 - Defines safe nitrogen inerting levels to prevent dust cloud explosions.



In addition to our suite of explosibility tests, we offer consulting services to help you assess your explosion hazard risk.



WORLD LEADER IN NUCLEAR AND CHEMICAL PROCESS SAFETY

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