



COMBUSTIBLE DUST TESTING

Stop Wondering, Start Taking Action on Your Facility's Dust

Reliable explosion protection isn't possible without first understanding the explosive characteristics of your dust. That's why dust testing is an essential step toward protecting your business from potential fines, unexpected downtime and devastating explosions.

“ Samples of the dust present in the equipment shall be tested and the data shall be obtained for use in the hazard identification. ”

- EN 1127-1 (2011) 4.2

“ The owner/operator of a facility with potentially combustible dusts shall be responsible for determining whether the materials are combustible or explosive. ”

- NFPA 652 (2019) 5.1



OUR DUST TESTING CAPABILITIES

Explosibility Screening

Hartman Tube or 20L Sphere, used to determine if your dust is explosive.

Explosion Sensitivity

Used for evaluating risks and reducing dust clouds and ignition sources.

- Minimum Explosible Concentration – how much dust in the air is required for an explosion
- Minimum Ignition Energy – how easily sparks can ignite the dust cloud
- Minimum Ignition Temperature – how easily hot surfaces or hot air can ignite dust clouds or dust layers

Explosion Effects

Used for mitigating explosion strategies:

- Max Explosion Pressure (Pmax) – 20L Sphere or 1 m³ vessel
- Max Rate of Explosion Pressure Rise (Kst) – 20L Sphere or 1 m³ vessel

PROBLEM? SOLVED.

To schedule dust testing or for more information, contact your local Fike sales representative, visit fike.com/dust-testing or email us at dust@fike.com

WORKING WITH FIKE

Quick Results

Dust testing services in both the US and EU minimize shipping and customs delays, resulting in best-in-industry lead times.

Hazard Prevention and Mitigation

Dust testing data is often used to reduce explosive atmospheres, prevent ignition sources and design mitigating systems.

Compliance

Tests conducted according to ASTM, CEN and VDI standards.

A Trusted Partner

More than 50 years of explosion protection and dust testing experience.