

CTL07 - Portable Dust Explosion Demo Kit Data Sheet

NEW



A portable kit demonstrating the hazards that even a small quantity of powder product can pose when dispersed in the form of a dust cloud through an electrostatic spark discharge ignition source

There is no better way than a live demonstration to raise awareness of dust explosion hazards. The DEKRA Process Safety portable dust explosion demonstration kit gives the audience an insight into the hazards that even the smallest quantity of powder product can pose when dispersed in the form of a dust cloud through an electrostatic spark discharge ignition source. The kit is supplied with all accessories in a compact, ready to use, robust case. Typically icing sugar or custard powder may be used for demonstration purposes. However, other products, for example metal powders and photo copier toner, may also be tested (optional glass tube recommended for ease of cleaning in those cases).

Benefits

- Impressive visual and audio demonstration of the hazards presented by dust clouds when subjected to an ignition source
- Allows employers / teachers to simply demonstrate to employees, students and co-workers the dangers that even the smallest quantities of some powders can pose when exposed to, or in the vicinity of, an electrostatic ignition source
- Compact - all standard accessories pack neatly away in the same case
- Portable, robust case design facilitates easy transportation

Functional specification and deliverables



- Powder dispersion unit with acrylic Hartmann tube
- Mains supply: 110 - 120 V a.c / 220 - 240 V a.c – 200 W
- 8.5 kV / 0.25 mA constant arc internal ignition source
- Hand-held control handset for arc activation and air dispersion
- Double action hand pump for pre-charging the internal air reservoir
- Rupture paper disc set
- Air line
- Electrodes
- Built in air regulator – typical default setting 4 barg
- Lightweight at just 15 kg and packed into robust case
- 1 x instruction manual

Optional extras



- Glass tube
- Polycarbonate protective screen
- Spare electrodes
- Spare rupture discs
- Training



DEKRA Organisational & Process Safety

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DEKRA Organisational and Process Safety are a behavioural change and process safety consultancy company. Working in collaboration with our clients, our approach is to assess the process safety and influence the safety culture with the aim of making a difference.

In terms of behavioural change, we deliver the skills, methods, and motivation to change leadership attitudes, behaviours, and decision-making among employees. Supporting our clients in creating a culture of care and measurable sustainable improvement of safety outcomes is our goal. The breadth and depth of expertise in process safety makes us globally recognised specialists and trusted advisors. We help our clients understand and evaluate their risks, and we work together to develop pragmatic solutions. Our value-adding and practical approach integrate specialist process safety management, engineering, and testing. We seek to educate and grow client competence in order to provide sustainable performance improvement. Partnering with our clients, we combine technical expertise with a passion for life preservation, harm reduction and asset protection.

We are a service unit of DEKRA SE, a global leader in safety since 1925 with over 48,000 employees in 60 countries and five continents. As a part of the world's leading expert organisation DEKRA, we are the global partner for a safe world.

We have offices throughout North America, Europe, and Asia.

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Would you like more information?

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