ellex electrostatic innovations

Safe processes through controlled electrostatic grounding

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For more safety

Electrostatic charges when handling liquids, granulates and powders

When liquids, granulates and powders are processed, the containers or the substances themselves can take on a dangerous charge. This includes processes such as decanting, emptying, pumping between containers, mixing, spraying, measuring, sampling, and cleaning. The amount of the charge depends on multiple factors: the working method, properties and flow rate of the processed media, and the size, geometry and material of the containers.

Uncontrolled discharge is a danger that is not to be underestimated!

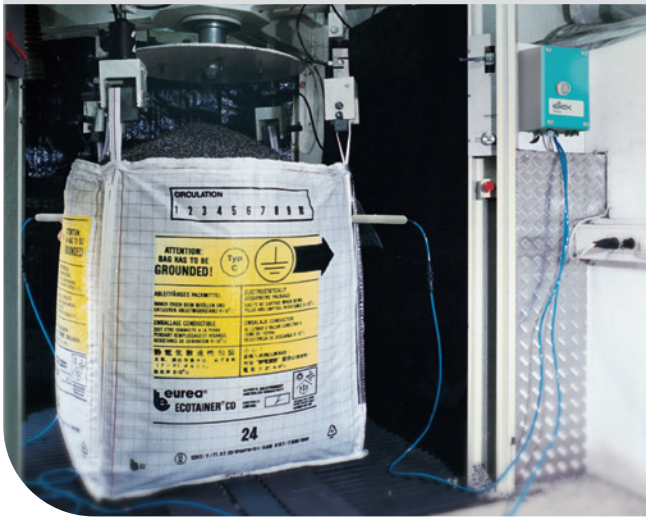
When filling or decanting potentially explosive materials, uncontrolled discharges can cause powerful deflagrations or fires. Eltex grounding monitoring systems prevent this by monitoring the connection for potential equalization and the contact of the ground clamps. If a faultless earth connection is detected, a potential-free changeover contact switches, which can control optical or acoustic signal transmitters, interlocks, pumps, slides, etc.
This ensures reliable and effective dissipation of electrostatic charges.

Perfect performance – broad range of applications

Not only does uncontrolled discharge cause property damage in many cases, it can also trigger secondary accidents and shocks to those working in the processing operation. Controlled grounding is a safe and easy measure for protecting employees, production facilities and transport machines.

Grounding with electrostatic systems is particularly beneficial in the following applications:

- loading and unloading tanker trucks
- explosion protection in production
- securing big bags
- filling and emptying containers
- process safety in the pharmaceutical industry



Big bag applications for filling

Active grounding for tanker trucks

Active grounding for containers or drums

Process safety with Eltex grounding devices in the pharmaceutical industry

Systematic ground monitoring

hazardous area

safe area

TERRALIGHT

TERRACAP

TERRAPHARM

TERRABOX

TERRACOMPACT II

active

REWINDING CABLE REELS

passive

GROUND CLAMPS