

12/04/2012

RE: EN 1149-5: 2008 Protective clothing - Electrostatic properties - Part 5: Material performance and design requirements

This European Standard specifies material and design requirements for electrostatic dissipative protective clothing, used as part of a total earthed system, to avoid incendiary discharges. The requirements may not be sufficient in oxygen enriched flammable atmospheres. This European Standard is not applicable for protection against mains voltages.

The standard specifies 3 areas

- 1) Performance requirements of materials
- 2) Design requirements
- 3) Marking & guidance

| TEST | METHOD | REQUIREMENTS |
|--------------------|--------------|---|
| Surface Resistance | EN 1149-1 | must be less than 5×10^{10} ohms |
| Induction charging | EN 1149-3,-2 | Half decay time < 4 s or Shielding factor > 0.2 |

The following gloves have been anti-static tested and meet the requirements defined in EN1149-5:2008:

KIMTECH SCIENCE* PURPLE NITRILE* gloves
KIMTECH SCIENCE* PURPLE NITRILE*-XTRA gloves
KIMTECH SCIENCE* STERLING* NITRILE* gloves and
KIMTECH SCIENCE* STERLING* NITRILE-XTRA gloves

There is no test standard for in-use resistivity which is part of EN1149-5. Nitrile gloves will increase in ESD properties when worn due to the moisture on the skin

Because the EN1149-1 test may not reflect the conditions of end use, those responsible for Health & Safety in the work environment should perform an in-use test to determine if the protective clothing being considered as part of the total earthed system, is compatible with their requirements for protection against electrostatic discharge.

If we can assist further please contact us at infofax@kcc.com

Regards

INFOFAX Service
Kimberly-Clark Professional* Europe