STANVAC.COM · DOCUMENT 04-2

Gas Suppression + Auto-Tripping Are Not Enough.

Condensed aerosol · NFPA 2010 | thermal trip · ANSI 49/26 — both fight the flame for a moment. Neither touches the fuel.



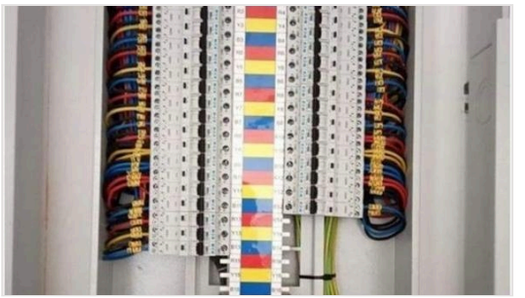
GAS SUPPRESSION

aerosol generator · one shot, one box



AFTER THE DISCHARGE

burnt panel internals · charred wiring



EC 7034

translucent coat on the panel's thin wiring



EC 43

cable trays · the highway, coated

FIRE NEEDS THREE THINGS — and only one is never attacked:

HEAT	FLAME	FUEL
your trip attacks it — sometimes	your gas attacks it — once	nobody attacks it — until STANVAC

1 · ARE YOUR TWO DEFENCES SURE-SHOT?

GAS — only if: enclosure sealed so agent holds density · sensor at the exact fault point · generator within service life · hot copper does not re-ignite · fire actually inside that one box. Even a perfect discharge is **one shot** — the next fault meets an empty canister.

TRIP — only if: the fault sits on a sensed point — hot-spots between go unseen · the fault is slower than the relay (arcs win in milliseconds) · nobody bypassed it after nuisance trips · its own control wiring has not burnt first. A successful trip only cuts power — **it does not extinguish plastic already burning.**

Ten conditions. One shot.

That is probability, not protection.

2 · THE MOMENT THEY FAIL — INSIDE YOUR PANEL

The gas was spent or leaked. The trip never saw the fault. The spark lands on the panel's internal wiring — its own fuel. Everything now turns on one question: **can that wiring burn?**

EC 7034 — it cannot. The spark dies on a wire that will not flame. Panel internal wiring · translucent, colour codes readable · CBRI 120-min. **Working at precisely the moment gas and trip are not.**

FBS 73 — every gap sealed: the fault sits starved of oxygen. The same seal that held your aerosol at design density — **your gas works because of it.**

DC 52 — the panel's own paint refuses to become fuel.

Three defences on duty at the exact moment of failure — nothing to activate, nothing ever switched off.

3 · OUTSIDE THE PANEL — THE 95% NOBODY GUARDS

Suppression's jurisdiction ends at the panel door. Beyond it — trays, trenches, risers, galleries — nothing stands guard.

6 MIN
bare XLPE flames

95%
of cable length unguarded

EC 43 / Survival — the highway: spread stopped 240-min; fire pump, alarms & trip circuits alive 240-min at 750 °C (IEC 60331-21)

FM-71 + FB-250 — the openings: 2-hr firestop, wall & floor (IS 12458 · UL 1479)

Coated fuel is fuel no more.

Your systems fight the flame. STANVAC removes the fuel. India loses one life to electrical fire every 26 minutes — layer both.

PCO — Panels · Cables · Openings — World's Only Complete Electrical Fire Defence · one survey · one specification · one accountable partner · sales@stanvac.com · +91-85271 99811 · stanvac.com