

Ozone Friendly - Cost Effective - Gas System Alternative.

FirePro aerosol extinguishing systems has been tested in electrical equipment with an operating voltage up to 75,000 volts, and did not cause an increase in leakage current during discharge to either the ambient temperature target or the target which had been heated to 400°C. Installations in Transformer Rooms up to 132kV have been completed.

The aerosol extinguishing medium consists of minute solid particles suspended in a gaseous atmosphere (N₂, water vapor and CO₂), thus referred to as an 'aerosol'. The main components, based on potassium compounds, in the intended concentration, are not corrosive, not electrically conductive, and do not damage electrical equipment; the particles are also free from moisture.

During the activation process the FPC changes into a swiftly spreading aerosol, consisting of solid particles that are suspended in the gas phase. The size of these particles is a few micrometres/nanometres. The **FirePro®** aerosol-forming compound is not based on halogen compounds to react with the fire. It does not produce any corrosive halogen acid by-products in its reaction with the fire.

The concentration of solid particles suspended in the aerosol phase is a few milligrams per m³. The particles are free from water and moisture and after a given period of time settle as dust in the protected room. Where the dust particles remain for a lengthy period, they can absorb moisture, meaning that the moisture will react with metal (especially unpainted) so that oxidation could occur.

FirePro® aerosol **fire extinguishers and fire extinguishing systems** provide an efficient and effective way of extinguishing gas and liquid fires and burning solids, especially if the substances are derived from hydrocarbons (natural gas, oil products, flammable lubricants, etc), but also boiling oils and burning fats and fires in electrical equipment with an operating voltage not exceeding 75,000 volts.

ELECTRONICS TESTING - electronics have been exposed to the action of the FirePro Condensed Aerosol Extinguishing Agent and underwent temperature/ humidity variation cycles to verify whether the presence of aerosol condensed particulates not removed from the electronic objects may cause corrosion and/or affect the proper functioning of electronics. The electrical performance of the electronics was not affected by the exposure to the FirePro condensed aerosol

