For a semiconductor manufacturing facility, an advanced fire protection system that offers superior performance is essential for protecting the facility and keeping employees safe.

Despite all the precautions taken to protect the highly sensitive equipment and instruments within a semiconductor facility, it doesn’t take much to severely damage them. Even a small amount of smoke, fire, water or vapor can halt business and shut down a facility. With the trend of continuing miniaturization, the risks of fire to a semiconductor manufacturing facility are exceptionally high. Therefore, the facility’s fire suppression system must offer superior performance to ensure that a potential fire is detected before it can even start.

Traditional suppressants can be just as devastating as fire to sensitive, high-value electronic equipment and may cause more damage while adding to cost and extensive cleanup time. The DuPont FE family of fire extinguishants has been tested for purity, providing a level of unrivaled protection for wafers and machinery. The water used in sprinkler systems could contain substances that can compromise the delicacy of products and equipment. DuPont FE products are just as sophisticated as the technology they protect.

**Cost Effective, Clean and Safe**
DuPont developed clean agent fire extinguishants that are electrically non-conductive, non-corrosive and free of residue, making them ideal for effectively extinguishing fires. DuPont FE clean agent fire extinguishants are an environmentally acceptable alternative to Halon and can be used in new applications or to replace Halon in existing systems with minimal system modifications. In some cases, DuPont FE clean agent fire extinguishants require less agent to exterminate a fire.
**DuPont™ FE-36™** - DuPont™ FE-36™ is proving to be the standard in-kind replacement for Halon 1211 in portable fire extinguishers, with comparable performance and efficiency. FE-36™ is discharged as a stream of gas and liquid droplets that penetrate into the fire area, ceasing the combustion process through heat absorption and a chemical interaction. FE-36™ is a replacement for Halon 1301 in local application systems such as modular systems. This is a specialized application where a relatively small enclosure requires a clean agent with very low toxicity. DuPont™ FE-36™ is preferred because it is a clean agent that is free of residue and is safer for people.

**DuPont™ FM-200®** - DuPont™ FM-200® is designed to flood an enclosure that is normally occupied and should be used where agents such as water, dry chemical, and carbon dioxide are unacceptable because they cause damage to high-value equipment or present a safety risk to people. With DuPont™ FM-200®, operations can resume as soon as fire damage is repaired allowing for minimal interruption.

**DuPont™ FE-25™** - DuPont™ FE-25™ is ideal for use in systems that protect both small, in-cabinet spaces and enclosures that have limited access. Since it can be concentrated directly on a fire, FE-25™ minimizes disruption in areas that may not be impacted by the hazard. It is an excellent choice for flood suppression where people are present and can replace extinguishing agents in existing systems with minimal or no modifications.

**Commitment to Safety**
For over 200 years, safety has been a core value at DuPont. Through the miracles of science™, we protect what matters most – people, assets and the environment. To learn more about the best DuPont fire extinguishant for semiconductor manufacturing facilities, visit [cleanagents.dupont.com](http://cleanagents.dupont.com) or call 1-800-473-7790.