

Argonite® Fire Protection Systems



Secure lives, values and
the environment





Introduction

Argonite has been developed to meet the demands from the industry for an environmentally friendly extinguishing media. Argonite is non-toxic, non-corrosive, non-fogging and leaves no residue. Argonite meets the challenge from both the Montreal- and Kyoto protocol with no ozone depletion potential or global warming potential.

Argonite is tested and approved by regulatory bodies throughout the world, and is effective against fires in almost all combustible materials and flammable liquids.

We have used Argonite since 1992 as an alternative to Halon 1301.

Applications

Argonite systems are ideally suited to the protection of fixed equipment and plant. They are particularly applicable for high value risks where fires can have devastating consequences way beyond the cost of damage and lost production.

Applications include

Telecommunications facilities • Computer suites • Archive stores
• Petrochemical plants • Offshore installations • Control centres

Argonite systems

Argonite systems consist of one or more pressure cylinders connected via a common manifold. System actuation can be manual or automatic and the gas is dispersed through a pipe network and enters the protected area via nozzles.

Valve design, the size and pressure of the cylinders used together with computer calculated pipe and nozzle dimensions ensure that the correct amount of Argonite is released effectively.

If more than one area is to be protected a central bank system with diverter valves to each of the rooms can be used.

The Argonite central bank system is typically installed in a central area with distribution pipes to the protected spaces, which can be some distance from the cylinder storage area. Distances of over 100 metres are not uncommon.

System design

In a closed space, almost all fires are extinguished in less than 60 seconds when the oxygen concentration falls below 15%.

The Argonite fire extinguishing system, based on a mixture of 50% Argon and 50% Nitrogen, reduces the oxygen concentration to a level

acceptable to human exposure over short periods – thus eliminating the fire quickly and effectively without affecting personnel. Knowing the size and complexity of the area to be protected, the fire hazard present and the requirements of the local approving authority, a dedicated computer programme is used to specify the size and geometry of the Argonite system hardware.

Argonite Cylinders

A range of cylinders is available offering a choice of fill and pressures to meet your specific needs and to ensure maximum cost effectiveness of the installation. Each cylinder is supplied in accordance with the requirements of the various national authorities – inclusive of stamping and certification. They are mounted in rows and may be installed in any suitable location.

Argonite Valves

Our Argonite valve is designed in accordance with the European Pressure Equipment Directive (PED) and the European Transport Pressure Equipment Directive (TPED) and ensures optimum system performance. They can be actuated by one of the following methods:

Elektrical • Pneumatic • Manual

The valve design allows our world-wide network of distributors to recharge the cylinders locally from industrial gas fillers. An easy-to-read gauge enables convenient inspection of the agent pressure and a pressure switch is fitted as standard to allow remote monitoring of the systems integrity.

Benefits of the Argonite System

- Fast acting and effective against nearly all fire hazards
- Minimum downtime after a fire
- Safe for occupied areas
- Environmentally neutral – zero ODP, zero GWP
- No post-fire residues or damage to protected equipment
- Electrical non-conductive
- Low installation and maintenance costs

Approvals

Argonite has been approved and verified by major international authorities and classification bodies. These include the NFPA, DNV, LPCB, FM, CNPP, FESC, SSL, and EPA.



At the Oresund Link between Denmark and Sweden we have installed Argonite systems for the protection of High Voltage Rooms and Control Rooms.



Reliability Assured

We are certified by EN ISO 9001:2000 quality standard. Our training programme ensures that our distributor's sales, engineering, and operational staff are fully qualified and trained with regard to the Argonite system. All designs are in accordance with our approved flow calculation software. This is licensed and can only be used by authorised distributors who are trained and endorsed by us.

The Company

We have over 85 years experience in manufacturing, designing and commissioning fire protection systems for industrial, commercial and marine applications around the world. Backed by the world-wide technical and financial strength of Kidde plc, we are able to offer a total capability approach to fire detection, extinguishing, and control.

Contact our local distributor or us for further information about the Argonite fire protection system.



Argonite is a registered trademark



Ginge-Kerr

