Iodine is one of the world’s strongest disinfectants. Together with the brilliant AIS technology, it delivers safe and powerful water sanitation, with a large range of applications and environmental benefits, across multiple industries.

Technology and operating methods

Iodine, a powerful disinfectant for over 100 years, is further enhanced by AIS technology to maximise its performance. As a result, the AIS system uses very low dosages of iodine (5ppm to 30ppm) to achieve outstanding kill rates on fungi, bacteria and viruses.

Iodine – a dark, dense, crystalline solid (4.96 g/ml) at room temperature – is a highly toxic chemical. When in contact with micro-organisms such as bacteria, viruses, fungi and protozoa, iodine is able to rapidly penetrate their cell walls and is a number of critical enzymes within the cell. The combined effect of these oxidative reactions is cell death.

Iodine is a powerful disinfectant and its lowest concentration at ppm rates from 0.5ppm and above has been shown to be effective at postharvest disease control and tissue treatment. When in contact with micro-organisms such as bacteria, viruses, fungi and protozoa, iodine is able to rapidly penetrate their cell walls and is a number of critical enzymes within the cell. The combined effect of these oxidative reactions is cell death.

The AIS system is far safer than any other system.

Iodine load exists in a wide range of fruit and vegetables. Efficacy testing showing kill rates on a wide range of fruit and vegetables (efficacy data available on request).

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AIS has a system for every size operation

Leading the world in water disinfection

Fully automated AIS delivers disease-control throughout your nursery by providing pathogens free water and ensuring a residual of iodine to your crop.

Its excellent disease and pathogen control throughout the facility ensures the need for costly fungicide treatments and minimises crop loss.

It is 100% effective over a broad pH range, does not react with water and is one of the few best treatments for root and drainage diseases such as rhizoctonia, root-rot, fusarium, take-all, and root-knot in treatment water.

Based on this, using iodine and iodophors, is a very effective alternative to oxidants such as chlorine for root and foliage treatments and minimising crop loss.

Stock, nursery, and delivery with iodine and iodophor based products are very effective in controlling bacteria reduction and disease.