

What is chlorine-dioxide?

The disinfectant used and recommended by Valdo Technic Industrial Solutions is chlorine dioxide. Chlorine dioxide is an inorganic aqueous solution with a neutral pH of 7.0. The chlorine dioxide is not dangerous for humans in the range of 0.1 ppm, but is able to destroy bacteria, fungi and viruses in the shortest possible time. **Chlorine dioxide should not be confused with chlorine gas!**

Chlorine dioxide is a remedy against which no bacterium can stand against or develop resistance. The reason for this is that chlorine dioxide penetrates through cell membranes into the single-celled organisms and destroys them. The chlorine dioxide solution poses no danger to humans and animals.

It is the most effective disinfectant in the world! It is very important that pH neutral chlorine dioxide, is not corrosive to ozone.

The chlorine dioxide molecule has been known since 1811, although it didn't get that much attention at the time. Later, at the end of the 1800s, German chemists recognized its disinfecting effect. They realized that this substance can also be used reliably for the disinfection of drinking water. Since then, its use in this field has become more and more widespread. Chlorine-dioxide has only been used for the treatment and prevention of human infections for several years.

The chlorine-dioxide water solution can be used in the healthcare sector in a very wide range. It is suitable for the cleaning of rooms as well as the disinfection of surfaces, or the sterilization of equipment and systems.

The aqueous chlorine dioxide solution can be used by atomization or by a steam generator to disinfect rooms in any building. The pH neutral chlorine-dioxide is also suitable for disinfection in drinking water.

Of course, all devices have an official certificate for proof of safety and certified laboratory tests.