



# ClearKlens Bi-Spore



## *Fast acting sporicidal disinfectant*

- Stable chlorine dioxide generating system
- Conforms to Sporicidal test BS EN 13704 in 5 minutes
- Highly effective within realistic cleanroom drying times (5-8 minutes after surface contact)
- Two single shot bottles for simple, safe dilution
- Complimentary rotational partner to ClearKlens Tego 2001

- 0.2µm filtered
- Aseptically filled
- Double bagged
- Sterility tested



### Contact time

-  ClearKlens Bi-Spore  
5 minutes
-  Leading Competitor  
60 minutes

*ClearKlens Bi-Spore: Proven to pass BS EN 13704 with a 5 minute contact time.*

*The Clear Choice*

JohnsonDiversey  
Clean is just the beginning





## What is Chlorine Dioxide?

Chlorine Dioxide ( $\text{ClO}_2$ ) is a powerful biocide which is effective at concentrations as low as 0.1ppm. It is a highly selective oxidant which is reduced to Chlorite ( $\text{ClO}_2^-$ ) during the electron transfer process.

Under normal conditions Chlorine Dioxide exists as a relatively unstable yellow / green gas, which is highly soluble in water. When in aqueous solution Chlorine Dioxide does not hydrolyse, but remains in solution as a dissolved gas, maintaining its free radical nature giving a highly effective antimicrobial solution which can be easily applied to all surfaces giving excellent disinfection.

## Efficacy of ClearKlens Bi-Spore

Proof of sporicidal efficacy is by passing BS EN 13704, a quantitative suspension test for the evaluation of sporicidal activity of chemical disinfectants. The organism used is *Bacillus subtilis*. The contact time and temperature can be altered to reflect parameters which are found in practical situations; the contact time specified is usually 60 minutes, and temperature is usually 20°C.

Following the given contact time the product being tested is neutralised and controls are carried out on the neutraliser and diluent. The final results are expressed as a log reduction in the number of bacteria initially present in the test suspension. There must be a 3 log reduction or greater for a product to pass the test.

Studies have shown that in reality once a sporicidal disinfectant is applied to a surface, due to constant air changes within a cleanroom, it will dry and become inactive after 5 to 8 minutes. In practise it is therefore important to prove the efficacy of a sporicidal disinfectant within practical in use contact times.

**ClearKlens Bi-Spore passes BS EN 13704 with a 3 log reduction at 5 minutes**

## Environmental and Health and Safety

ClearKlens Bi-Spore, dissolved in water is completely biodegradable and can be disposed of into normal foul drains. Unlike most other chlorinated products ClearKlens Bi-Spore does not produce free chlorine and hence can't form environmentally harmful chlorinated compounds often associated with the use of chlorine in the presence of organic molecules.

Although ClearKlens Bi-Spore attacks the cell walls of micro organisms, it will not attack human cells due to the difference in their chemical structure.

**ClearKlens Bi-Spore is not classed as hazardous to human health**

## Use Instructions

ClearKlens Bi-Spore is used for wiping and mopping applications. Add the 100ml contents of ClearKlens Bi-Spore Activator to 4.8 litres of water, then immediately add 100 ml contents of ClearKlens Bi-Spore Base.

Leave for 10 minutes prior to use. Use solution within 24 hours.

## Further Information

Detailed Technical File available containing:

- Product Information Sheet (PIS)
- Material Safety Data Sheet (MSDS)
- Manufacturing Method
- BS EN 1276, 1650, 13697, 13704
- Quality Control Specification
- Validated Titration Test Method
- Examples of certification
- Work place exposure limits
- Compatibility data
- Corrosion data

**The Clear Choice**

**JohnsonDiversey**  
Clean is just the beginning

