



**INFECTION CONTROL  
PRODUCT GUIDE**

**Dental / Medical**

**Bossklein®**

**Complete hygiene solutions**

**Instruments**

**Surfaces**

**Special areas**

**Skin & hands**

# Bossklein®



## Quality Matters

Bossklein is a specialist brand of concentrated disinfectants, ready to use sprays, wet wipes plus other cleaning solutions. All products are designed specifically for use within the highly regulated dental and medical sectors worldwide.

The Bossklein brand is a dedicated multilingual range, manufactured in the United Kingdom by us - Topdental (Products) Ltd. This gives ultimate control over the supply chain for total peace of mind and stress-free production that you can rely on.

All Bossklein products are designed with the end user in mind, rigorously tested to the highest EN standards to ensure full efficacy against a range of micro-organisms, including various bacteria, yeast and viruses.

The recent COVID-19 pandemic has highlighted the need for effective infection control and a well-prepared hygiene plan, to eliminate the risks associated in everyday tasks.

Visit [bossklein.com](http://bossklein.com) or the Bossklein social media channels today to find out more.

Topdental is part of DirectaDentalGroup. A group of prestigious international companies with brands specifically focused on providing solutions to the dental sector.

DirectaDentalGroup who's headquarters are in Sweden, is a highly pro-active, innovative player on the international dental market with business partnerships across the world. DirectaDentalGroup consists of more than 200 employees representing its various brands.

DirectaDentalGroup's business concept is in the development and manufacture of dental consumables, materials and electronics with the aim to simplify daily clinical life for dental practitioners, nurses and their patients alike.

DirectaDentalGroup

DIRECTA topdental ORSING parkell KOHLER RÖNVIG polydentic  
TrollDental Sendoline physics CONTACEZ ceramir



## Here to help

The global healthcare infection control sector can be complicated by local/national rules and different interpretations of international standards. Our in-house export and regulatory experts can ensure a smooth transition from your initial enquiry to delivery.

## High Standards

As a designer and manufacturer of medical devices, it is imperative that products meet the of highest standards.

The quality management system at Topdental has been assessed and is certified to ISO 13485:2016, also Directive 93/42/EEC, Annexes II and V. The transition for certification to the Medical Device Regulation (EU) 2017/745 is currently underway.

Bossklein Infection Control products are tested to the latest European Standards (EN Standards) with ISO 17025 accredited laboratories.

These internationally recognised standards ensure customers and users all around the globe can have ultimate confidence in the infection control products Bossklein place on the market.

The microbiological efficacy of products is an area which requires continuous advancements to keep up to date with the latest Medical Device and Biocide requirements.

Please do not hesitate to contact us if you have any questions about our products.

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## Complete **hygiene** solutions



# Future First



## Committed to a greener future

Bossklein is continuously working to innovate around both product efficiency and sustainability.

Bossklein's Future First strategy is designed to encourage more sustainable healthcare practices by providing users with vital information about the positive ecological impact of our infection control range. This innovative step aims to empower healthcare facilities to make informed decisions that benefit both public health and the environment.

By offering transparency regarding environmental impact, healthcare providers can make conscientious choices aligned with their own sustainability goals.

Healthcare facilities are increasingly seeking ways to reduce their ecological footprint without compromising on patient care. Bossklein is encouraging healthcare professionals to make environmentally responsible choices without compromising infection control standards.

## Eco Friendly Raw Materials

Our advanced disinfectants, cleaning solutions, and hygiene products are formulated using as many modern and eco-friendly raw materials as possible - without compromising performance.

The goal is to minimise our ecological footprint while delivering safe, effective, and responsible infection control solutions.

Many of our formulations take advantage of;

- Plant based detergents and chelating agents
- Natural amino acids
- Biodegradable corrosion inhibitors
- Biodegradable active ingredients
- Renewable and sustainable materials

CONTAINS  
**PLANT-BASED**  
INGREDIENT



## Look Out For The Leaf

Labels now prominently feature important environmentally friendly headlines about each specific product.

Headlines highlight key aspects of our products' environmental impact, such as natural ingredients, recyclable packaging, biodegradability, sustainable sourcing and more.

To be able to provide end users with comprehensive details about our environmental initiatives, each label includes an easy to use scannable QR code.

By simply using a smartphone to scan the code, you will be directed to the dedicated Bossklein Eco-Facts webpage.

Here you will find in-depth information about each product's sustainability practices, recycling information, and much more.

## Join the Bossklein journey

We invite you to join us in taking a step toward greener practices. For us, this is part of our responsibility to the community we serve and the world we all share.



## Greener Packaging

Maintaining high standards of cleanliness and infection control is paramount. But the materials and packaging we use for disinfectants and cleaning products have an impact on the environment, all the way from production through to disposal.

By reducing the plastic in our containers and utilising more recycled content, we're working to decrease each product's ecological footprint without compromising on the quality and performance you've come to rely upon from Bossklein.

From responsible sourcing of raw materials, to designing waste-minimising packaging and optimising manufacturing processes, each step brings us closer to our vision of an environmentally mindful future.

Bossklein is continuously working to innovate around both product efficiency and sustainability.

## Complete **hygiene** solutions

## Hygiene and Disinfection

Dental staff and patients are continually exposed to a wide range of pathogenic micro-organisms – including bacteria, viruses and yeast. It is therefore vitally important to ensure a complete infection control range is utilised to minimise this ever-present threat within the dental surgery.

It is equally as crucial that the products are efficacious against a broad spectrum of pathogens, tested to the latest microbiological standards and are effective in a quick but practical contact time for a given application.

The Bossklein infection control range excels in each of these areas to provide the user and patient with complete peace of mind.



### Bacteria

It is essential that Bacteria is removed, due to their ability to rapidly reproduce through cell division. For example, under favourable conditions E.Coli can divide every 20 minutes – which means one bacterium can generate 1,048,576 bacteria in just 6 hours.

The Bossklein infection control products are effective against a wide range of bacteria in a matter of minutes. This includes gram positive, gram negative and antibiotic resistant bacteria such as Staphylococcus aureus, E.Coli, MRSA and VRE\*.

### Viruses

Bossklein infection control products are effective against viruses transmitted by blood (Hepatitis B, Hepatitis C and HIV) also viruses transmitted by direct or indirect contact such as Coronavirus or Influenza virus\*.

Viruses spread easily in high traffic areas, clinical areas and where the likelihood of contact with blood is high.

Unlike bacteria – viruses rely upon living cells to replicate their viral material surviving for long periods of time. For example Hepatitis C can exist on surfaces for several weeks.

### Yeast

All Bossklein infection control products have been proven to be yeasticidal and tested for effectiveness specifically against Candida albicans.

This should give both patients and staff complete confidence in all round infection control by Bossklein.

Yeasts can lead to serious infections especially for those with compromised immune systems.

Most regions around the world require disinfectants to be effective against yeast.

\* See individual product for details



## The perfect balance

Infection control products must not damage the equipment they have been designed to protect.

## Efficacy vs Compatibility

Achieving a balance between microbial efficacy and material compatibility is crucial to ensure effective infection control without compromising the integrity of dental instruments, surfaces and equipment.

Formulations and methods must be powerful enough to eliminate harmful pathogens, yet gentle enough to prevent corrosion, degradation, or weakening of delicate dental instruments, surfaces and restorative materials or harm to the users.

Bossklein infection control products have been carefully designed to remove contamination and eliminate commonly found pathogens without damaging materials regularly used within the dental industry.

## Transfer of Micro-organisms

The dental surgery is classed as a high-risk environment for the potential transfer of pathogens. Transmission can occur via multiple routes and without strict infection control procedures micro-organisms can rapidly transfer, increasing the risk of cross-infection between patients and staff.

## Patients and Staff

Micro organisms have the potential to be easily transferred between directly patients and staff. Due to the close contact and relatively high traffic of a dental practise the risks are high.

## Indirect Contact

Handling contaminated instruments, surfaces, or objects without proper sterilisation can spread micro-organisms. A comprehensive infection control procedure is vital to preventing transmission.



## Droplets

Coughing, sneezing or even talking can expel respiratory droplets. These can reach dentists, dental assistants and patients. Correct PPE can help prevent this alongside regular infection control.

## Airborne

High-speed handpieces, ultrasonic scalers, and air-water syringes all generate airborne aerosols which can contain saliva and blood. These can linger in the air and settle on surfaces, potentially infecting staff or the next patient.



## Importance of EN Testing

All Bossklein infection control products are tested to EN (European Norm) standards up to and including phase II steps I & II. EN testing is the gold standard due to its rigorous, real-world testing conditions and regulatory requirements. It is the most comprehensive and recognised method for evaluating disinfectants, particularly in dental / medical settings.

EN standards are mandatory for disinfectants used on medical devices and sold within the European Union and the UK. They also align with biocidal product regulations, ensuring complete safety and effectiveness.



## Protecting patient and staff safety

EN methods are recognised globally, and have stricter requirements than other available standards. This allows professionals to have full confidence in the Bossklein range.

## Three Stages of Infection Control

### Cleaning

Cleaning is a critical initial phase of the infection control process. The removal of organic matter including blood, saliva, and micro-organisms from surfaces or instruments is paramount to the success of later stages.

Cleaning does reduce the number of micro-organisms but does not remove them all. It takes place with the aid of water, detergents and/or manual scrubbing or ultrasonic cleaning.

If debris is left to remain it can effectively shield the surface from disinfection and sterilisation from taking place.

### Disinfection

Disinfection refers to the use of chemical agents (or heat) to reduce or eliminate the majority of pathogenic micro-organisms on surfaces or instruments.

Active disinfectants include alcohol, chlorine or quaternary ammonium compounds (QACS).

Regular disinfection is vital for high touch surfaces around the surgery like door handles and the dental chair. It is mandatory that these must be disinfected after each patient visit to avoid the potential transfer of diseases.

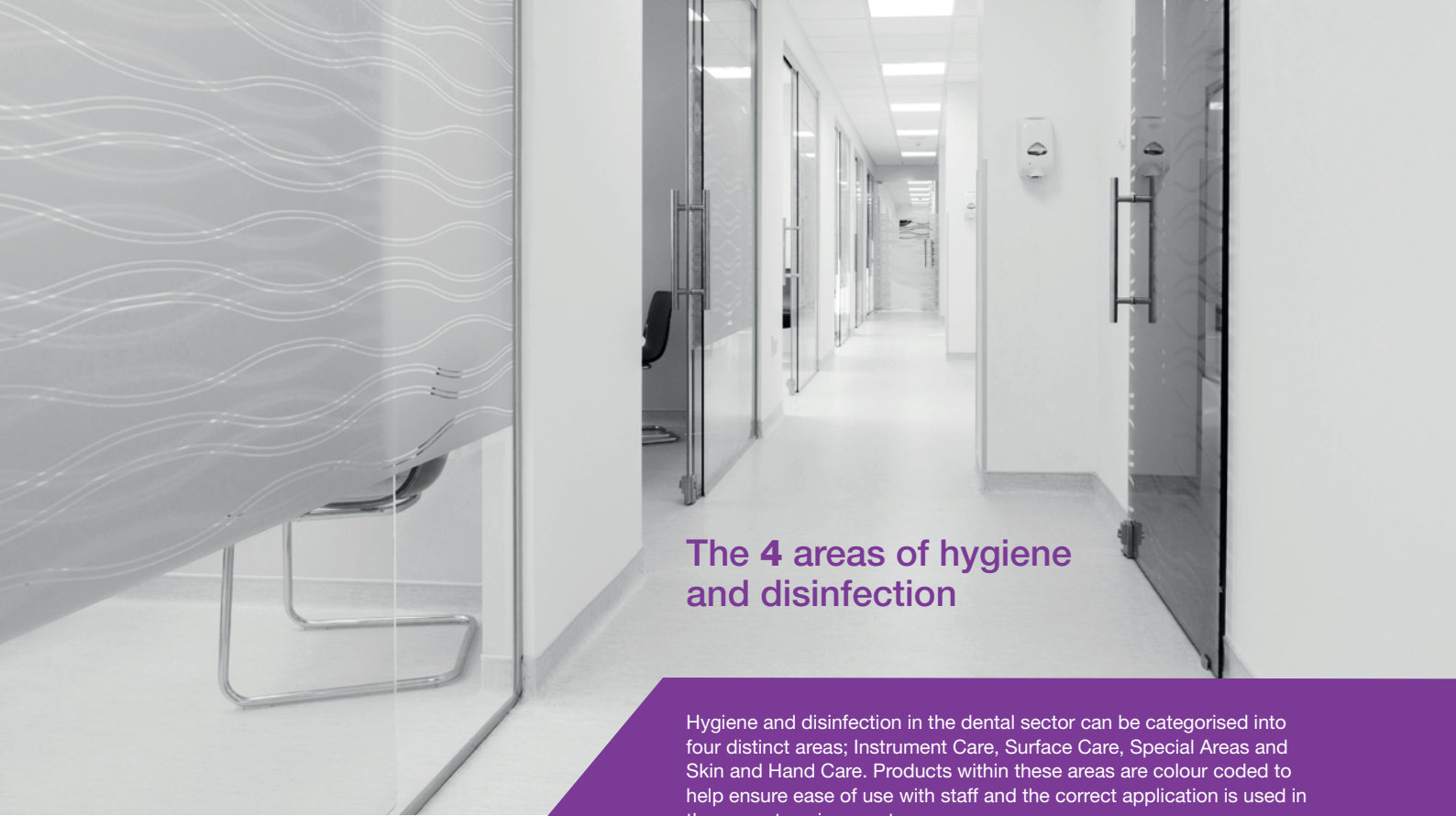
### Sterilisation

Sterilisation is the final stage in the infection control process. Ensuring complete destruction of all microbial life and preventing any risk of infection transmission. This eliminates all micro-organisms including bacteria, yeast, viruses and spores.

Sterilisation is achieved using heat and/or pressure in devices such as an autoclave or washer disinfectant.

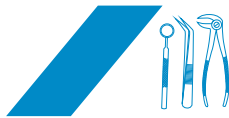
All instruments must be autoclaved after cleaning and before reuse. Instruments are then placed inside sealed sterilisation pouches to ensure recontamination does not take place.





## The 4 areas of hygiene and disinfection

Hygiene and disinfection in the dental sector can be categorised into four distinct areas; Instrument Care, Surface Care, Special Areas and Skin and Hand Care. Products within these areas are colour coded to help ensure ease of use with staff and the correct application is used in the correct environment.



### Instrument Care

The demands of the modern dental surgery insist instruments are decontaminated, disinfected quickly and efficiently, anything less than this can result in lost hours repeating processes and can increase the risk of cross infection.

Our Instrument Care products get to work quickly with their short contact times and take advantage of low dilution/ concentration levels to ensure time spent processing is minimal.

Bossklein tests products against a variety of different materials to ensure maximum compatibility which is important of any instrument care product.

See pages 6-9



### Surface Care

Dental, like other clinical environments including medical, must adhere to strict requirements in order to keep staff and patients safe. One of the biggest risks is from cross-contamination between patients and staff coming into contact with the same surface.

In any clinic the disinfection of surfaces is vital to stopping the spread of disease and infection. This can be achieved with both alcohol free and alcohol based products, usually in the form of a wipe or spray.

All Bossklein Surface Care products have been developed with both the end user and specific intended usage environment in mind, this means our products are trusted by clinical staff worldwide.

See pages 10-15



### Special Areas

Thorough and complete cleaning and disinfection of special area items is absolutely necessary. These include aspirator/suction equipment and dental impressions. Bossklein Special Area products have been specifically developed to be used for these purposes.

All inner surfaces of suction equipment are recommended for daily disinfection and cleaning with a product with no or low foaming properties to ensure no damage is caused to expensive machinery.

Impression disinfection is also considered an important aspect of the infection control process. Impressions must be disinfected to avoid possible transmission of disease to and from the lab technician.

See pages 16-17



### Skin & Hand Care

Hands have been proven to be the number one transmitter of pathogens in everyday life. It is considered crucial that hands are disinfected regularly. By using Bossklein Skin and Hand Care disinfectant products you reduce the rate of infections by a significant amount.

With close contact between patients, dentists and nurses, cross-contamination is extremely high. To help combat this is regular and comprehensive hand disinfection must take place.

The molecular properties of the Bossklein B70gel Hand Disinfectant and the inclusion of aloe vera allows for the preservation of the epidermis of the skin, whilst protecting against a wide range of organisms.

See pages 18-19

# Instrument Care



Disinfecting the instruments is the penultimate stage in the process before final sterilisation.

## Cleaning

According to the UK HTM 01-05 guidelines – effective cleaning is essential before progressing onto the disinfection stage.

Blood and organic soil can inhibit the instrument disinfectant antimicrobial efficacy. This is due to the fact that disinfectants have reduced efficacy in soiled conditions. Secondly, blood and organic soil occupy the instrument surface area, preventing the disinfectant covering and attacking pathogens on the instrument.

The Bossklein ULTRAbio Ultrasonic Cleaner, when used in an ultrasonic bath, is ideal for helping to ensure protein has been removed from instruments by utilising protein digesting enzymes.

## Lubrication

Efficient lubrication of handpieces not only ensures proper functionality and performance of a vital piece of dental equipment, regular maintenance can eliminate expensive repairs.

It is vital that the lubricant reaches and coats the correct internal bearings of the handpiece so a pressurised aerosol solution is recommended.

Bossklein UNiOil Universal Handpiece Oil has been specifically designed for modern dental handpieces. Pairing with the additional universal nozzle attachment, it can be used with any type of dental handpiece.

## Disinfection

An instrument disinfectant should be powerful enough to kill pathogens in 60 minutes or less according to EN14885. The effectiveness of the disinfecting process can also be enhanced by an ultrasonic cleaner.

Additionally, excellent material compatibility is a crucial feature to prevent damage to instruments.

Alongside a comprehensive effective spectrum which includes Coronavirus and TB, Bossklein IDactiv Instrument Disinfectant has completed extensive material compatibility testing according to EN21530 to preserve instrument quality.

# IDactiv

## Instrument Disinfectant and Cleaner

For the disinfection and cleaning of instruments and tools prior to terminal sterilisation using the method of immersion. For use inside an instrument or ultrasonic bath.

- Short soaking time, from only 15 mins
- Concentrated solution (from just 2%)
- EN 21530 tested for material compatibility
- Reduced safety and reduced hazards
- Mild fresh aroma



BOS9842 - IDactiv 1 Litre x 6 per box  
 BOS9843 - IDactiv 2.5 Litre x 4 per box  
 BOS9840 - IDactiv 5 Litre x 2 per box



MICROORGANISM	TIME	CONC
<b>Bactericidal</b>	<b>15 min</b>	<b>2%</b>
<i>BS EN 13727:2012 + A2:2015</i>		
<i>BS EN 14561:2006</i>		
Pseudomonas aeruginosa, Staphylococcus aureus, Enterococcus hirae, E. coli, Salmonella typhimurium, MRSA, Legionella pneumophila	15 min	2%
<b>Yeasticidal</b>	<b>15 min</b>	<b>2%</b>
<i>BS EN 14562:2006</i>		
<i>BS EN 13624:2013</i>		
Candida Albicans	15 min	2%
<b>Enveloped Viruses</b>	<b>15 min</b>	<b>2%</b>
<i>BS EN 14476 2013 + A2 2019 (E)</i>		
Vaccinia virus, Hepatitis B (HBV), Hepatitis C (HCV), HIV, Measles virus, Hepatitis Delta virus (HDV), Influenza virus, Coronavirus, Herpesviridae, Filoviridae (Ebola), Rubella virus, Rabies virus.	15 min	2%
<b>Non-Enveloped Viruses</b>		
<i>BS EN 17111: 2018</i>		
Adenovirus 5, Norovirus	30 min	4%
<b>Mycobactericidal</b>	<b>60 min</b>	<b>4%</b>
<i>BS EN 14348 : 2005</i>		
<i>BS EN 14563 : 2008</i>		
Mycobacterium avium	60 min	4%
<b>Tuberculocidal</b>	<b>60 min</b>	<b>4%</b>
<i>BS EN 14348 : 2005</i>		
<i>BS EN 14563 : 2008</i>		
Mycobacterium terrae	60 min	4%

**2%**  
 DILUTION 20ml/1L\*

**CONTACT**  
 15 MIN\*

**2in1**  
 CLEANS & DISINFECTS

**ULTRASONIC FRIENDLY**

# IDactiv QUANTUM

COLOUR CHANGE POWDER

## Instrument Disinfectant Powder

Disinfectant for use in the reprocessing of all reusable surgical, medical and dental instruments prior to sterilisation. For use in the instrument soaking bath.

- Soaking time of only 30 mins
- Concentrated powder (2%)
- Visual effectivity indicator
- Powerful Sporicidal disinfectant



BKINS700 - IDactiv Quantum 700g x 6 per box



After mixing, the solution changes colour to show when it is active and ready to use (red)



MICROORGANISM	TIME	CONC %
<b>Bactericidal</b>	<b>30 min</b>	<b>2%</b>
<i>BS EN 13727:2012 + A1:2013</i>		
<i>BS EN 14561: 2006</i>		
Pseudomonas aeruginosa, Staphylococcus aureus, Enterococcus hirae, E. coli, MRSA	30 min	2%
<b>Yeasticidal</b>	<b>30 min</b>	<b>2%</b>
<i>BS EN 13624:2013</i>		
<i>BS EN 14562: 2006</i>		
Candida Albicans	30 min	2%
<b>Enveloped Viruses</b>	<b>30 min</b>	<b>2%</b>
<i>BS EN 14476 2013 + A1 2015</i>		
<i>BS EN 17111: 2018</i>		
Hepatitis B (HBV), Hepatitis C (HCV), HIV, Human T Cell Leukemia virus, Measles virus, Hepatitis Delta virus (HDV), Influenza virus, Coronavirus, Herpesviridae, Filoviridae (Ebola), Rubella virus, Rabies virus, Poxviridae	30 min	2%
<b>Non-Enveloped Viruses</b>		
<i>BS EN 14476 2013 + A1 2015</i>		
<i>BS EN 17111: 2018</i>		
Adenovirus 5, Norovirus	30 min	2%
<b>Sporicidal</b>	<b>30 min</b>	
<i>BS EN 17126:2018</i>		
Bacillus subtilis	30 min	2%
Bacillus cereus	30 min	2%

**2%**  
 DILUTION 20g/1L\*

**CONTACT**  
 30 MIN

**POWDER BASED**

**DOSING SCOOP**

\* See Bossklein.com for full details

# ULTRA<sup>bio</sup>

## Ultrasonic Cleaner

For the pre-cleaning and decontamination of hand instruments and forceps, rotary instruments and mirrors. Designed for use inside the ultrasonic bath.

- Enzymatic concentrated solution
- Works in only 15 minutes
- Highly effective cleaner
- Non toxic and non corrosive



BOS9788 - ULTRAbio 1 Litre x 6 per box  
BOS9770 - ULTRAbio 2.5 Litre x 4 per box  
BOS9794 - ULTRAbio 5 Litre x 2 per box



BREAKS DOWN  
PROTEINS

3%

DILUTION  
30ml/1L



CONTACT  
15 MIN



ULTRASONIC  
FRIENDLY



# UNI<sup>oil</sup>

## Universal Handpiece Oil

All purpose handpiece lubricant spray for maintenance of all dental handpieces including high speed, slow speed and air motors.

- Effective aerosol based lubricant
- Removes debris from handpieces
- High penetrative ability
- Peppermint aroma



BOS9777 - UNIoil 500ml x 12 per box  
GHB025 - Universal nozzle



Universal nozzle ensures UNIoil fits any dental handpiece





# Surface Care

Disinfection is essential for ensuring that surfaces do not transfer infectious pathogens to patients and staff

## Comprehensive cleaning and disinfection

Disinfecting surfaces within the dental surgery is probably the most common and frequently performed infection control task. Due to patient traffic and the constant contact with contaminated objects, all equipment, surfaces, chairs, fixtures and fittings need to be disinfected between each treatment session.

The advantages of the Bossklein range of surface disinfectant wipes and sprays are the thorough cleaning action and the compatibility with a wide range of surfaces.

All Bossklein surface disinfectant wipes and sprays are virucidal against all enveloped Viruses including Coronavirus.

## Alcohol resistant surfaces

Alcohol resistant surfaces are exploited in many areas within the dental surgery, for instance operating lamp handles. These surfaces remain unaffected by high alcohol content – which allows a powerful antimicrobial action.

Unlike many other alcohol based surface disinfectants – the Bossklein alcohol based V-WIPE and SDactiv Surface Disinfectants have undergone complete microbial testing to ensure efficacy against all enveloped Viruses including Coronavirus.

The short contact times and quick drying, streak free finish are major advantages when rapid disinfection is required eg in-between patients.

## Alcohol sensitive surfaces

Alcohol sensitive surfaces are prevalent in the dental surgery, for instance - X-ray equipment, hand controls and dental chairs. Dental chairs are a key area where patients share contact, and therefore an ideal surface area for the transmission of pathogenic micro-organisms.

Dental chairs are typically made of artificial leather, therefore require a more sensitive cleaning and disinfecting treatment compared to other surfaces.

The Bossklein alcohol free V-WIPE ZERO and alcohol free SDactiv ZERO Surface Disinfectant Spray are virucidal against all enveloped viruses, including Coronavirus, and are ideal for use on all surfaces, including those sensitive to alcohol.



## Why choose wipes?

Disinfection using wipes should always be preferred to spray delivered liquid disinfectants for one main reason; its safer - for both patients and staff.

Sprayed disinfectants become airborne and therefore there is an increased risk of inhalation. Wiping has the added benefit of the physical action of mechanically wiping a surface which can help to loosen debris and ensure the disinfectant makes full contact with the surface.

Bossklein V-WIPE and V-WIPE ZERO have been specially designed for use on non-invasive medical device surfaces within the dental surgery, these include but are not limited to; dental chairs, worktops, plastic equipment cases, assistant's stools, etc.

## Economic Refill Packs

Refill packs of V-WIPE and V-WIPE ZERO are available, in both the CLASSIC and ULTRA wipe substrates (see below for more details).

These high quality, fully printed pouches are constructed from a strong triple laminate structure.

Each pouch is designed to be used inside a reusable dispenser tub. Acting as a more eco-friendly alternative by reducing the amount of plastic consumed compared to only using each tub once.



## Dispenser Tubs

Bossklein V-WIPE and V-WIPE ZERO wipes are available in user friendly, refillable dispenser tubs.

Tubs are constructed from a strong HDPE plastic which ensures maximum protection for their contents. Each tub is fully recyclable and is provided with a secure cap/lid which includes an airtight seal keeping the wipes fresh for their next use.

Tubs are designed to be easily refilled using the refill packs which helps to reduce the amount of plastic consumed and their associated carbon footprint.



Refilling and reusing V-WIPE dispenser tubs can reduce the amount of plastic consumed and lower our carbon footprint

## Wipe Substrates



### CLASSIC

Economical  
Durable  
200x200mm  
Contains 200 wipes  
18gsm PP



### ULTRA

Premium feel & thicker  
Extra strong  
175x155mm  
Contains 160 wipes  
40gsm PP



### ECO-XL

Eco-friendly - Plastic free - Biodegradable  
Sustainably sourced  
240x200mm  
Contains 100 wipes  
40gsm Viscose

# V-WIPE

## Surface Disinfectant Wipe

CONTAINS ALCOHOL

Ideal to use on alcohol resistant, non-porous surfaces within the dental surgery where short contact times are important, eg in-between patients.

- Fresh lemon aroma
- Contact time of only 60 seconds
- Dual registered - Biocide and Medical device
- Contains 63% Ethanol

BOS9783 - V-WIPE Classic Tub x 12 per box  
 BOS9784 - V-WIPE Classic Refill x 12 per box

BOS1000 - V-WIPE Ultra Tub x 6 per box  
 BOS1001 - V-WIPE Ultra Refill x 12 per box



MICROORGANISM	TIME
<b>Bactericidal</b>	<b>60 sec</b>
BS EN 13727:2012 + A2:2015	
BS EN 16615:2015	
Pseudomonas aeruginosa, Staphylococcus aureus, Enterococcus hirae, E. coli, MRSA, VRE	60 sec
<b>Yeasticidal</b>	<b>60 sec</b>
BS EN 13624:2013	
BS EN 16615:2015	
Candida albicans	60 sec
<b>Enveloped viruses</b>	<b>60 sec</b>
BS EN 14476:2013 + A1 2015	
Hepatitis B virus (HBV), Hepatitis C virus (HCV), HIV, Measles virus, Hepatitis Delta virus (HDV), Influenza virus, Coronavirus, Herpesviridae, Filoviridae (Ebola), Rubella virus, Rabies virus, Poxviridae	60 sec
<b>Non enveloped viruses</b>	<b>60 sec</b>
BS EN 14476:2013 + A1 2015	
Adenovirus 5, Murine norovirus	60 sec
<b>Mycobactericidal</b>	<b>60 sec</b>
BS EN 14348:2005	
Mycobacterium avium	60 sec
<b>Tuberculocidal</b>	<b>60 sec</b>
BS EN 14348:2005	
Mycobacterium terrae	60 sec



Alcohol has a powerful microbial action, the perfect solution for controlling infections on resistant surfaces in clinical environments.



# SDactiv

## Surface Disinfectant

CONTAINS ALCOHOL

Ideal to use on alcohol resistant, non-porous surfaces within the dental surgery where short contact times are important, eg in-between patients.

- Fresh lemon aroma
- Contact time of only 60 seconds
- Dual registered - Biocide and Medical device
- Contains 63% Ethanol

BOS9782 - SDactiv 500ml x 10 per box  
 BOS9801 - SDactiv 1 Litre x 10 per box  
 BOS9779 - SDactiv 5 Litre x 2 per box





# V-WIPE ZERO

## Surface Disinfectant Wipe

ALCOHOL FREE

Suitable for use on all non-porous surfaces and equipment that are sensitive to alcohol, including the dental chair\*

- Subtle apple aroma
- Contact time of only 60 seconds
- Dual registered - Biocide and Medical device
- 2 in 1 - cleans and disinfects



BOS2000 - V-WIPE ZERO Classic Tub x 12 per box  
BOS2001 - V-WIPE ZERO Classic Refill x 12 per box

BOS3000 - V-WIPE ZERO Ultra Tub x 6 per box  
BOS3001 - V-WIPE ZERO Ultra Refill x 12 per box

MICROORGANISM	TIME
<b>Bactericidal</b> <i>BS EN 13727:2012 + A2 2015</i> <i>BS EN 16615:2015 (E)</i>	<b>60 sec</b>
<i>Pseudomonas aeruginosa,</i> <i>Staphylococcus aureus,</i> <i>Enterococcus hirae</i>	60 sec
<b>Yeasticidal</b> <i>BS EN 13624:2021</i> <i>BS EN 16615:2015 (E)</i>	<b>60 sec</b>
<i>Candida albicans</i>	60 sec
<b>Enveloped viruses</b> <i>BS EN 14476:2013 + A2:2019</i> <i>BS EN 16777:2018</i>	<b>60 sec</b>
<i>Vaccinia virus, Hepatitis B virus (HBV),</i> <i>Hepatitis C virus (HCV), HIV, Measles virus,</i> <i>Hepatitis Delta virus (HDV),</i> <i>Influenza virus, Coronavirus,</i> <i>Herpesviridae, Filoviridae (Ebola),</i> <i>Rubella virus, Rabies virus, Poxviridae</i>	60 sec



APPLE AROMA

**2in1**

CLEANS & DISINFECTS



WIPES & SPRAYS



CONTACT 60 SEC\*\*

Sensitive non-porous surfaces are prevalent in the dental surgery, including those of dental chairs. The ZERO alcohol free formula is the ideal partner to tackle these\*

# SDactiv ZERO

## Surface Disinfectant

ALCOHOL FREE

Suitable for use on all non-porous surfaces and equipment that are sensitive to alcohol, including the dental chair\*

- Subtle apple aroma
- Dual registered - Biocide & Medical device
- 2 in 1 - cleans and disinfects
- Modern, safe formulation



BOS2006 - SDactiv ZERO 500ml x 10 per box  
BOS2005 - SDactiv ZERO 1 Litre x 10 per box  
BOS2007 - SDactiv ZERO 2.5 Litre x 4 per box  
BOS2004 - SDactiv ZERO 5 Litre x 2 per box



\* Always test an inconspicuous area first

# V-WIPE ZERO ECO-XL

Surface Disinfectant Wipe  
BIODEGRADABLE†



STAY FRESH LID

2in1

DISINFECTS & CLEANS



APPLE AROMA



PLANT BASED WIPE

Developed for use in clinical environments, on non-invasive medical devices and general high traffic non-porous surfaces.

The exclusive wipe substrate material is constructed from plant based viscose fibres which are 100% renewable and sustainably sourced. Wipes are biodegradable† and totally plastic free. Packs contain 100 wipes.

The construction and extra large size (240 x 200mm) of the 40gsm wipe material is extra durable and ideal for clinical disinfection.

- Plastic free wipe
- Plant based fibres
- Renewable resources
- Reduced carbon footprint
- Alcohol free



BOS8001 - V-WIPE ZERO ECO-XL Flowpack x 9 per box

MICROORGANISM	TIME
<b>Bactericidal</b>	<b>2 min</b>
BS EN 13727:2012 + A2 2015	
BS EN 16615:2015	
Pseudomonas aeruginosa, Staphylococcus aureus, Enterococcus hirae	2 min
<b>Yeasticidal</b>	<b>60 sec</b>
BS EN 16615:2015	
BS EN 13624:2021	
Candida albicans	60 sec
<b>Enveloped viruses</b>	<b>60 sec</b>
BS EN 14476:2013 + A2:2019	
BS EN 16777: 2018	
Vaccinia virus, Hepatitis B virus (HBV), Hepatitis C virus (HCV), HIV, Measles virus, Hepatitis Delta virus (HDV), Influenza virus, Coronavirus, Herpesviridae, Filoviridae (Ebola), Rubella virus, Rabies virus	60 sec



## DRYwipes

Highly Absorbent Dry Wipe

LINT FREE

Perfect to use in conjunction with surface disinfectant sprays such as Bossklein SDactiv and SDactiv ZERO, see pages 12 and 13.

- Packs contain 50 wipes
- Each wipe measures 300x270mm
- Wipes are highly absorbent
- Wipes remain strong when wet



DRY0002 - DRYwipe pack x 10 per box



HIGHLY ABSORBENT



STRONG WHEN WET

† Wipes are made from biodegradable plant fibres

Disinfection is essential for ensuring that surfaces do not transfer infectious pathogens to patients and staff.



Alcohol based products like V-WIPE Classic and Ultra are ideal to use on all alcohol resistant surfaces around the surgery. Their quick drying and streak free formula is a powerful weapon in the fight against infection within clinical environments.



Alcohol free products like V-WIPE ZERO Classic and Ultra have the advantage of being compatible with almost all non-porous surfaces, including those sensitive materials like the ones used on dental chairs\*

\* Always test an inconspicuous area first

# Special Areas



In order to reduce the risk of infection for patients it is important that cleaning and disinfection take place regularly

## Complete disinfection

Aspirator/Suction systems become contaminated with organic matter and debris during the course of treatment, this can easily build up over time if efficient care and decontamination does not take place. In order to reduce the risk of infection for patients it is important that cleaning and disinfection take place regularly. It is recommended that they are cleaned/disinfected on a daily basis.

Dental impressions are easily contaminated with pathogenic organisms due to their very nature - they come in contact directly with the inside of patients mouth's. Decontamination and disinfection is vital to avoid cross-contamination during application, transport, processing and protect the surface quality of the impression itself.

## Suction systems

The cleanliness and disinfection of the suction system should take place frequently - at least once a day, usually after surgery ends. The choice of disinfecting product should be limited to chemicals which are compatible with the system. For instance, chlorine based disinfectants will cause corrosion of the system.

Bossklein DAILYasp aspirator/suction system cleaner and disinfectant is non-corrosive and non-hazardous when diluted to the economical 2% dosage also possesses excellent material compatibility. Has a low foam intensive cleaning and disinfecting action - with a broad efficacy spectrum to preserve continual system functionality and hygiene.

## Impressions

Ensuring that the impression material is disinfected is vital to prevent the transmission of pathogens to the dental technician. It is mandatory that dental impressions are disinfected correctly before being sent to the lab for processing.

It is typically the norm that impression disinfectant products should disinfectant in 10 minutes or under but they must not affect the mould stability and shape.

Bossklein IMPactiv P impression disinfectant powder is an economical disinfectant, an especially quick contact time of just 60 seconds which helps to reduce overall processing times.

# DAILYasp

## Aspirator Cleaner & Disinfectant

For the daily cleaning and disinfection of all types of aspirator systems, including wet line, dry line and semi wet/dry systems.

- Short soaking time, from only 15 mins
- Low-foaming and non-abrasive
- Contains EDTA - True one step solution
- 3 in 1 – cleans, disinfects and deodorises
- Aldehyde, chlorine and phenol-free



BOS2487 - DAILYasp 1 Litre x 6 per box  
 BOS2489 - DAILYasp 2.5 Litre x 4 per box  
 BOS2488 - DAILYasp 5 Litre x 2 per box



MICROORGANISM	TIME	CONC %
<b>Bactericidal</b>	<b>15 min</b>	<b>2%</b>
<i>BS EN 13727:2012 + A1:2013</i>		
<i>BS EN 14561:2006</i>		
Pseudomonas aeruginosa, Staphylococcus aureus, Enterococcus hirae	15 min	2%
<b>Yeasticidal</b>	<b>15 min</b>	<b>2%</b>
<i>BS EN 13624:2013</i>		
<i>BS EN 14562:2006</i>		
Candida Albicans	15 min	2%
<b>Enveloped Viruses</b>	<b>15 min</b>	<b>2%</b>
<i>BS EN 14476 2013 + A2 2019</i>		
Hepatitis B (HBV), Hepatitis C (HCV), HIV, Measles virus, Hepatitis Delta virus (HDV), Influenza virus, Coronavirus, Herpesviridae, Filoviridae (Ebola), Rubella virus, Rabies virus, Poxviridae	15 min	2%
<b>Non Enveloped Viruses</b>		
<i>BS EN 17111: 2018</i>		
Adenovirus 5, Norovirus	15 min	2%

DAILYasp contains EDTA to target calcium deposits. No need for additional weekly cleaners - unlike other brands

**2%**

DILUTION  
20ml/1L\*

CONTACT  
15 MIN\*

LOW  
FOAMING

SAFE FOR  
ALL TYPES

# IMPactiv | P

## Impression Disinfectant

Fast acting, powder based disinfectant. Suitable for all types of impression material including orthodontic impressions.

- Contact time of just 60 seconds
- Does not deform impressions\*\*
- Economical 2% dilution ratio
- Includes measuring scoop

BOS9823 - IMPactiv P 700g x 6 per box



MICROORGANISM	TIME	CONC %
<b>Bactericidal</b>	<b>60 sec</b>	<b>2%</b>
<i>BS EN 13697:2015</i>		
<i>BS EN 13727:2012 + A1:2013</i>		
Pseudomonas aeruginosa, Staphylococcus aureus, Enterococcus hirae, E.coli, MRSA	60 sec	2%
<b>Yeasticidal</b>	<b>60 sec</b>	<b>2%</b>
<i>BS EN 13697:2015</i>		
<i>BS EN 13624:2013</i>		
Candida Albicans	60 sec	2%
<b>Enveloped Viruses</b>	<b>60 sec</b>	<b>2%</b>
<i>BS EN 14476 2013 + A1 2015</i>		
Hepatitis B (HBV), Hepatitis C (HCV), HIV, Measles virus, Hepatitis Delta virus, Influenza virus, Coronavirus, Herpesviridae, Filoviridae (Ebola), Rubella virus, Rabies virus, Poxviridae	60 sec	2%
<b>Non Enveloped Viruses</b>		
<i>BS EN 14476 2013 + A1 2015</i>		
<i>BS EN 17111: 2018</i>		
Adenovirus 5, Murine norovirus	60 sec	2%

**2%**

DILUTION  
20g/1L\*

CONTACT  
60 SEC

POWDER  
BASED

SAFE FOR  
ALL TYPES

\* See Bossklein.com for full details  
 \*\*Do not exceed recommended time

# Skin and Hands



Effective hand hygiene is vitally important to prevent the spread of pathogens and contamination of instruments

## Consistency is the key

The potential dangers of bad hand disinfection practises are obvious; an increased infection risk from the unavoidable close contact between staff and patients.

It is considered vital that staff members are fully compliant in the process of hand disinfection as this is considered the most important method of reducing cross-contamination and therefore infection.

To avoid increased risks hand disinfection must become consistent, comprehensive and be repeated frequently to become second nature.

Hands must be disinfected before and after contact with patients.

## Complete disinfection

Due to the requirement to constantly disinfect hands at key stages, it is important the product has a rapid contact time and it is also delicate on the skin.

Bossklein B70gel hand disinfectant has a 30 second contact time and is EN14476 virus tested for virucidal activity against all enveloped Viruses including Coronavirus.

The efficacy of B70gel is further validated by performing microbiological tests to EN1500 standard which demonstrates the product efficacy in working practice.

Including both aloe vera and vitamin E with the exclusive B70gel formula ensures hands remain supple and smooth, even after repeated use.

## Protection and care

The skin serves as the main protective barrier against damage to internal organs. The skin barrier is located in the uppermost layer of the skin, protecting the underlying skin from the entry of irritants and allergens.

The UK Health and Safety Executive notes that healthcare workers may develop dermatitis more often than the general population. The most common causes are working with wet hands, in contact with liquid soaps and cleaning materials.

Disinfecting hands to prevent infection is extremely important, Bossklein B70gel contains no dye to ensure maximum compatibility with minimum risks.

# B70gel

## Hand Disinfectant Gel

Rapid acting disinfectant with 70% alcohol content that also includes aloe vera to actively moisturise hands. Dermatologically tested and suitable for frequent use.

- Short contact time of only 30 seconds
- Kills 99.9% of bacteria and viruses
- Dual action: disinfects and moisturises
- Dye free for maximum compatibility



BOS7007 - B70gel 50ml x 50 per box  
 BOS7006 - B70gel 500ml x 10 per box  
 BOS7005 - B70gel 5 litre x 2 per box

MICROORGANISM	TIME
<b>Bactericidal</b>	<b>30 sec</b>
<i>BS EN 13727:2012+A2:2015</i>	
<i>BS EN 1500:2013</i>	
Pseudomonas aeruginosa, Staphylococcus aureus, Enterococcus hirae, E-coli	30 sec
<b>Yeasticidal</b>	<b>30 sec</b>
<i>BS EN 13624:2013</i>	
Candida albicans	30 sec
<b>Enveloped viruses</b>	<b>30 sec</b>
<i>BS EN 14476:2013+A2:2019</i>	
Vaccinia virus, Hepatitis B virus (HBV), Hepatitis C virus (HCV), HIV, Measles virus, Hepatitis Delta virus (HDV), Influenza virus, Coronavirus, Herpesviridae, Filoviridae (Ebola), Rubella virus, Rabies virus, Poxviridae	30 sec
<b>Non-Enveloped viruses</b>	
<i>BS EN 14476:2013+A2:2019</i>	
Adenovirus 5, Murine norovirus	30 sec



CONTAINS  
**ALOE VERA**



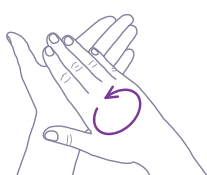
**70%** ALCOHOL CONTENT    **CONTACT 30 SEC**    **KIND TO SKIN**    **CONTAINS VITAMIN E**    **100%** ALLERGEN FREE

## Hygienic Hand Disinfection

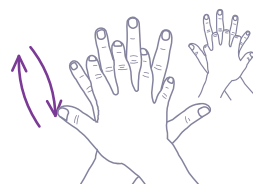
Disinfection should be completed by applying Bossklein B70gel directly to dry hands and rubbing together over a minimum of 30 seconds. It is vitally important to rub every area of the hands including the finger nails and wrists. See below for our simple 8 step guide:



**1** Apply a small amount (about 3ml) of gel in a cupped hand and cover all surfaces



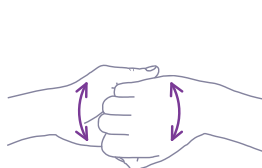
**2** Rub hands palm to palm



**3** Rub back of each hand with the palm of the other hand with fingers interlaced



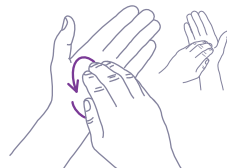
**4** Rub palm to palm with fingers interlaced



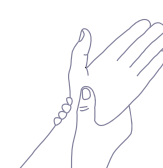
**5** Rub with backs of fingers to opposing palms with fingers interlocked



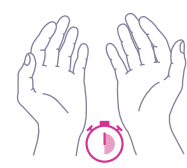
**6** Rub each thumb in opposite hand with rotational movement



**7** Rub tips of fingers in opposite palm in a circular motion



**8** Rub each wrist with opposite hand



**9** Once dry, your hands are safe

# Accessories



## Spectrum Tips

Disposable 3 in 1 syringe tips with secure locking mechanism. No adapter necessary. Multi coloured.

**Packing Details**  
SPE0001 - 250 x Spectrum Tips



## Easy Tips

Disposable 3 in 1 syringe tips Adapter required. Clear.

**Packing Details**  
EAS0001 - 250 x Easy Tips



## 5L Dispenser Pump

38mm dispenser pump for use with Bossklein 5 litre containers. 30ml per dose approx.

**Packing Details**  
TOP0026A - 1 x Dispenser pump



## 5L Dispenser Tap

38mm dispenser tap for use with Bossklein 5 litre containers.

**Packing Details**  
GHM067 - 1 x Dispenser tap



## Handpiece Oil Nozzle

For 500ml UNLoil Universal Handpiece Oil. Fit into slow or high speed handpieces.

**Packing Details**  
GHB025 - 1 x Universal fitting nozzle



## Dosing Cup

Calibrated dosing/measuring cup for concentrated solutions. Holds up to 60ml.

**Packing Details**  
DOS001 - 1 x Dispenser tap



## Instrument Bath

3 litre capacity, tested to BS5452  
Contains removable draining tank and lid.

**Packing Details**  
TOP0042 - 1 x Instrument bath 3 litre



## Bur Bath

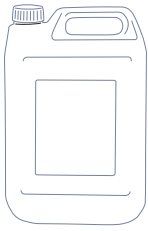
150ml bur bath with removable inner basket and lid

**Packing Details**  
TOP0041 - 1 x Bur bath 150ml



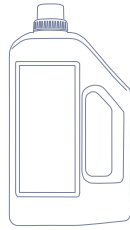


# Packaging



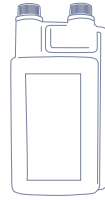
**5 Litre Refill**

Economical Refill Container



**2.5 Litre Bottle**

Includes dosing device



**1 Litre Twin**

Includes dosing device



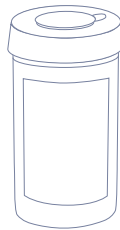
**500ml Aerosol**

Steel aerosol can for oil



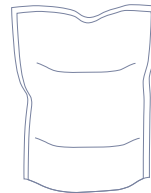
**Ultra Wipe Tub**

With stay fresh lid for 160 wipes



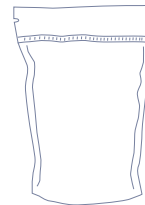
**Classic Wipe Tub**

With stay fresh lid for 200 wipes



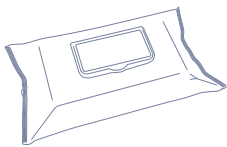
**Ultra Wipe Refill**

For 160 wipes



**Classic Wipe Refill**

For 200 wipes



**Wipe Flowpack**

With stay fresh lid



**50ml Tottle**

Includes clip fastener



**500ml Bell Bottle**

With pump



**700g Tub**

Includes tamper proof seal



**1 Litre Trigger**

Spray with foaming trigger



**500ml Trigger**

Spray with foaming trigger

## IMPactiv | P

### Impression Disinfectant

- Concentrated powder
- Phase II Step I & II tested
- 60 second contact time
- 20g/1L dosage (2%)



## DAILYasp

### Aspirator Cleaner & Disinfectant

- Concentrated solution
- One step action
- Phase II Step I & II tested
- 15 min contact time
- 20ml/1L dosage (2%)\*



## DRYwipes

### Highly Absorbent Dry Wipe

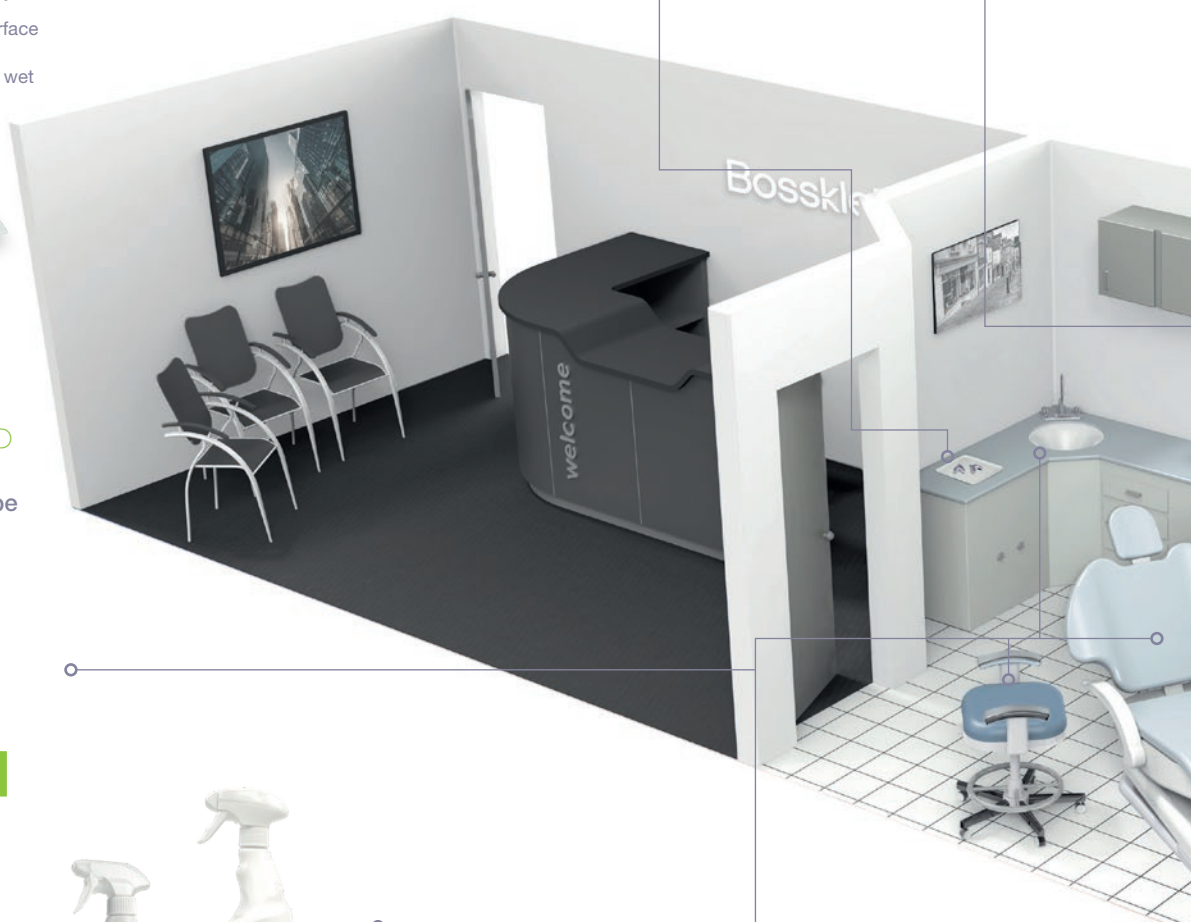
- Use in conjunction with surface disinfectant sprays
- Wipes remain strong when wet
- Packs contain 50 wipes



## V-WIPE ZERO

### Surface Disinfectant Wipe

- Plastic free wipe
- Alcohol free
- Phase II Step I & II tested



## SDactiv ZERO

### Surface Disinfectant

- Ready to use
- Alcohol free
- Phase II Step I & II tested
- Ready to use



## V-WIPE ZERO

### Surface Disinfectant Wipe

- Alcohol free
- Phase II Step I & II tested
- 60 second contact time
- Tubs and Refill Packs
- Two wipe types



### CLASSIC

200 Large Wipes  
200 x 200mm  
Economy 18gsm

### ULTRA

160 Premium Wipes  
175 x 155mm  
Premium 40gsm

### V-WIPE

#### Surface Disinfectant Wipe

- Alcohol (63%)
- Phase II Step II tested
- 60 second contact time
- Tubs and Refill Packs
- Two wipe types

#### ULTRA

160 Premium Wipes  
175 x 155mm  
Premium 40gsm

#### CLASSIC

200 Large Wipes  
200 x 200mm  
Economy 18gsm

### SDactiv

#### Surface Disinfectant

- Alcohol (63%)
- Phase II Step II tested
- 60 second contact time
- Ready to use



### UNIoil

#### Universal Handpiece Oil

- Aerosol lubricant
- Removes debris
- High penetrative ability
- Peppermint aroma



### ULTRA bio

#### Ultrasonic Cleaner

- Concentrated solution
- Enzymatic
- 15 min contact time\*
- 30ml/1L dosage (3%)

### IDactiv QUANTUM

#### Instrument Disinfectant Powder

- Concentrated powder
- Phase II Step I & II tested
- Sporicidal
- 30 min contact time
- 20g/1L dosage (2%)

### IDactiv

#### Instrument Disinfectant and Cleaner

- Concentrated solution
- Phase II Step I & II tested
- Tuberculocidal
- 15 min contact time\*
- 20ml/1L dosage (2%)\*

# Complete hygiene solutions

# Bossklein®

Topdental (Products) Ltd  
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Holmfield, Halifax, HX2 9TN  
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[www.topdental.co.uk](http://www.topdental.co.uk)  
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[info@bossklein.com](mailto:info@bossklein.com)



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