

# ANTI-MICROBIAL PRODUCT PROTECTION FROM THE DANGERS YOU CAN'T SEE



DURABLE HYGIENIC EFFECTIVE

# THE PINNACLE OF HYGIENIC CLEANING

Hillbrush are at the forefront of technology-led cleaning equipment, researching, designing and manufacturing the most effective cleaning tools. Hillbrush products help you achieve the best clean yet and combat the risks of harmful bacteria in any hygiene critical environment, for example in a food manufacturing facility.

Our ultimate range, Hillbrush Hygiene Anti-Microbial, has been designed specifically to target the areas that pose the greatest threat of bacterial contamination, whether through cross-contamination or bacterial growth. The anti-microbial technology protects the product reducing the opportunity for both bacterial growth and cross contamination.

Bacteria typically thrive in warm, moist environments, particularly where high-risk produce has passed through or where cross-contamination has occurred. Some harmful bacteria known as *resilient bacterium*, such as Listeria, can survive in hotter or colder conditions. It can grow in temperatures between  $-1.5^{\circ}$ C and  $45^{\circ}$ C<sup>1</sup>, whereas most bacteria thrive at temperatures between  $25^{\circ}$ C and  $40^{\circ}$ C<sup>2</sup>, and can even survive freezing temperatures ( $-18^{\circ}$ C)<sup>3</sup>.



<sup>1</sup> https://www.foodstandards.gov.au/publications/Documents/Listeria%20monocytogenes.pdf

<sup>2</sup> http://science.jrank.org/pages/714/Bacteria.html

<sup>3</sup> CFA.org, Controlling Listeria Monocytogenes (Presentation)



**DID YOU KNOW?** 

The most common cause of food poisoning is Campylobacter, which is thought to be responsible for around 280,000 illnesses and over 100 deaths every 12 months in the UK.\*

\* Food Standards Agency, 2015



\*Food Standards Agency, 2015



\* https://www.researchgate.net/publication/26330393 History of the Medical Use of Silver



#### AVAILABLE IN 6 COLOURS



Ideal for workplace segregation to avoid cross-contamination and the spread of bacteria.

#### **DID YOU KNOW?**

Listeria often finds 'dips' in work surfaces where it can harbour. It then creates a 'biofilm' preventing any chemicals getting in to clean it. Manual cleaning can get to these hard-to-reach places.\*

\* https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5498454/

#### IS ANTI-MICROBIAL THE SAME AS ANTIBACTERIAL?

An anti-microbial inhibits the growth of harmful micro-organisms such as bacteria, fungi and moulds. An antibacterial specifically prevents the growth of bacteria.

#### WHY USE HILLBRUSH ANTI-MICROBIAL PRODUCTS?

The use of chemicals in cleaning is common, but using them alone is not always the most effective method. Manual cleaning with brushes (alongside chemical use) is still the best way of removing as much bacteria as possible because the filaments can reach into areas where chemicals cannot, where biofilms may have formed. Using Hillbrush Anti-Microbial brushes gets to the hard-to-reach areas to clean away the bacteria and significantly reduces the risk of any cross-contamination by stopping bacteria replicating on them.

## IS IT DURABLE?

Independent migration testing confirms that Biomaster is permanent. It is incorporated into our masterbatch of polyester PBT, polypropylene and resin for our products, not coated on the surface, providing permanent product protection.

### IS IT HYGIENIC?

Biomaster has been independently tested and is registered with The Food and Drug Administration (FDA) and The Environmental Protection Agency (EPA). Biomaster uses actives that are being supported through the Biocidal Products Regulation (EU) No. 528/2012.

#### IS IT EFFECTIVE?

Independent testing shows Biomaster treated products inhibit the growth of bacteria by up to 99.99% when tested against ISO 22196:2011. We can provide test certificates proving efficacy for various pathogens on request.

#### ANOTHER LAYER OF PROTECTION

Hillbrush Anti-Microbial not only protects against harmful microbes being transferred via cleaning equipment, but also provides extra filament security in our Resin-Set DRS<sup>®</sup> (dual retention system), preventing the loss of filaments from brushes into the produce.

Insist on Resin-Set DRS<sup>®</sup> Brushware and only get the best. Find out more about Resin-Set here: hillbrush.com/resin-set

















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