

## Purehold Antibacterial Range - Chemical Resistance

The Purehold Antibacterial Range is made from ABS (Acrylonitrile Butadiene Styrene) plastic and coated with an extremely robust antibacterial coating.

This coating has been tested by Pure Hold Ltd using the following cleaning chemicals over a 6 week test period.

Cleaning Chemical	Hazardous Active Ingredients (list on MSDS)
<b>Clinell Universal Wipes</b> (used widely within the NHS)	Quaternary Ammonium Compounds and Polymeric Biguanide Hydrochloride
<b>Antichlor Plus Disinfectant</b> (used widely within the NHS)	troclosene sodium and Arylsulfonates
<b>Salvesan Sporicidal disinfectant</b> (used by Bupa)	Hypochlorous acid
<b>Bioguard surface wipes</b> (used in a wide range of markets)	Benzalkonium Chlorid and Isopropanol

Each chemical was wiped daily on a plaque containing the Purehold antibacterial coating.

The following observations were recorded:

1. No chemical reaction
2. No surface removal onto wipes

The active ingredient within the Purehold Antibacterial coating is Silver Ions. SteriTouch (the supplier of the Silver ions) have provided the following data to demonstrate the microbial effectiveness of the coating following formal JIS Z 2801:2000 testing to a range of chemicals.

Soaked in IPA for 24 hrs	E-coli	Biocidal Pass	JIS Z 2801:2000
Soaked in IPA for 24 hrs	MRSA	Biocidal Pass	JIS Z 2801:2000
Soaked in Chlorine Bleach for 24 hrs	MRSA	Biocidal Pass	JIS Z 2801:2000
Soaked in Chlorine Bleach for 24 hrs	E-coli	Biocidal Pass	JIS Z 2801:2000
Soaked in Ethanol for 24 hrs	MRSA	Biocidal Pass	JIS Z 2801:2000
Soaked in Ethanol for 24 hrs	E-coli	Biocidal Pass	JIS Z 2801:2000
Soaked in Quaternary Ammonium for 24 hrs	MRSA	Biocidal Pass	JIS Z 2801:2000
Soaked in Quaternary Ammonium for 24 hrs	E-coli	Biocidal Pass	JIS Z 2801:2000
Soaked in Phenol Base Disinfectant for 24 hrs	MRSA	Biocidal Pass	JIS Z 2801:2000
Soaked in Phenol Base Disinfectant for 24 hrs	E-coli	Biocidal Pass	JIS Z 2801:2000