



## BST AntiBacterial Pens | ST1\*\*\*\*AW

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### The BST AntiBacterial Pen Range

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Our unique range of pens contain antibacterial surface protection that uses innovative antimicrobial technology. This technology harnesses the natural sterilising properties of silver.

This protection is permanently embedded into the pen and will not wear off over time. Silver has been used for centuries for its natural sterilising properties. In recent years, this antibacterial effect has been harnessed through the development of innovative carrier mechanisms, which enable the controlled release of silver ions, allowing silver to be incorporated into most materials without losing efficiency and without affecting the physical properties of the material.

BST antibacterial pens are available in a variety of styles including standard retractable pens, stick pens, felt tip pens and luxury fine liners. Retractable pens are also available with a 'pressurised' ink cartridge, allowing the pen to work continuously at -20°C, upside down, underwater and even in space. The full range of models available are detailed in this document.

### The BST AntiBacterial Pen Range Advantages

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- ✓ Actively contributes to existing infection control measures
- ✓ Incorporates antibacterial technology to protect against pathogenic germs and moulds
- ✓ Protects against E.coli, MRSA and Salmonella
- ✓ Available in four ink colours (dependant on model)
- ✓ Strong, durable, shatter resistant & chemically resistant material
- ✓ Available in a variety of body styles and ink types to suit specific requirements
- ✓ Compliant with EU & FDA food contact legislation

## The BST AntiBacterial J800 Pen

The standard J800 retractable antibacterial pen is ideal for any hygiene critical environment. The pen contains a high quality stainless steel refill with a 10,000m estimated write out length. The simple retractable mechanism contains no spring, has no easily detachable parts and is designed to have as few crevasses / germ traps as possible.



### BST AntiBacterial J800 Product and Packaging Information

<b>Product Code</b>	J800AW*	<b>AntiBacterial</b>	Yes
<b>Pack Size</b>	25	<b>Housing Material</b>	Polypropylene
<b>Pack Weight</b>	0.45kg	<b>Cartridge Material</b>	Stainless Steel
<b>Body Colours</b>	White	<b>Write Out Length</b>	9,000m +/- 30%
<b>Ink Colours</b>	B,K,R,G	<b>Commodity Code</b>	96081010

### BST AntiBacterial J800 Ink Specification

- ✓ Temperature Range 5 ~ 30°C
- ✓ Unpressurised ink
- ✓ ISO 12575 - 2 DOC G2
- ✓ ISO 12575 - 2 DOC H
- ✓ ISO 12575 - 2 G2
- ✓ ISO 12575 - 2 DOC A2
- ✓ ISO 12575 - 1 A M
- ✓ TSCA Listed (USA)
- ✓ ISO 12757 - 1
- ✓ ISO 12757 - 2
- ✓ Conforms to REACH standards

### ISO Standards - BST AntiBacterial J800

This ink conforms with ISO 12757-2. For documentary use, to assure the legibility of lettering and for the handling and storage of documents during long periods of time. Testing of light resistance to a minimum of 5 years.

## The BST AntiBacterial P950 Pen

The pressurised retractable antibacterial pen is an upgraded version of our standard retractable. The difference is all in the ink cartridge, which contains pressurized ink. This cartridge is tested to perform all the way down to -20°C and will work in greasy, damp, wet and zero gravity environments. Write out length is 6000m.



### BST AntiBacterial P950 Product and Packaging Information

<b>Product Code</b>	P950AW*	<b>AntiBacterial</b>	Yes
<b>Pack Size</b>	25	<b>Housing Material</b>	Polypropylene
<b>Pack Weight</b>	0.45kg	<b>Cartridge Material</b>	Stainless Steel
<b>Body Colours</b>	White	<b>Write Out Length</b>	6,000m +/- 30%
<b>Ink Colours</b>	B,K	<b>Commodity Code</b>	96081010

### BST AntiBacterial P950 Ink Specification

✓ Temperature Range -20 ~ +5°C	✓ ISO 12575 - 2 DOC A2	✓ ISO 12575 - 2 G2 M
✓ Pressurised ink	✓ ISO 12575 - 2 DOC H	✓ TSCA Listed (USA)
✓ ISO 12575 - 2 DOC G2	✓ ISO 12575 - 1 A M	✓ Conforms to REACH standards

### ISO Standards - BST AntiBacterial P950

This ink conforms with ISO 12757-2 and ISO 12757-1. For documentary use, to assure the legibility of lettering and for the handling and storage of documents during long periods of time. Testing of light resistance to a minimum of 5 years.

## The BST AntiBacterial Eco Pen

The one piece antibacterial Eco pen is designed for economy conscious users. It is less expensive and uses less material, making it more environmentally friendly. The pen features a hexagonal body profile, making it less likely to roll off work surfaces. Write out length is reduced to 2800m due to a smaller cartridge.



### BST AntiBacterial Eco Product and Packaging Information

<b>Brass Product Code</b>	E210AW*	<b>Nickel Product Code</b>	E2100AW*
<b>Ink Colours</b>	B,K,R,G	<b>Ink Colours</b>	B,K
<b>Pack Size</b>	50	<b>AntiBacterial</b>	Yes
<b>Pack Weight</b>	0.35kg	<b>Housing Material</b>	Polypropylene
<b>Body Colours</b>	White	<b>Cartridge Material</b>	Brass
<b>Write Out Length</b>	2800m +/- 20%	<b>Commodity Code</b>	96081010

### BST AntiBacterial Eco Ink Specification

- ✓ Unpressurised ink
- ✓ MITI Listed (Japan)
- ✓ ISO 12575 - 2 DOC G2
- ✓ ISO 12575 - 2 DOC A2
- ✓ ISO 12757 - 1
- ✓ ISO 12575 - 2 DOC H
- ✓ ISO 12575 - 1 A M
- ✓ ISO 12757 - 2
- ✓ ISO 12575 - 2 G2 M
- ✓ TSCA Listed (USA)

## The BST AntiBacterial Fine Liner Pen

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For a high quality finish, the antibacterial fine liner is the choice to make. The nib is spring loaded, the ink cartridge features a nickel plated body and a stainless steel ink feeder. This pen comes complete with an antibacterial cap to prevent the pen drying out, and is designed to produce, bold, and clear text on most non laminate papers / documents.



## The BST AntiBacterial Fine Liner Product and Packaging Information

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<b>Product Code</b>	L550AW*	<b>AntiBacterial</b>	Yes
<b>Pack Size</b>	10	<b>Housing Material</b>	Polypropylene
<b>Pack Weight</b>	0.20kg	<b>Cartridge Material</b>	Nickel Plated Brass
<b>Body Colours</b>	White	<b>Write Out Length</b>	500m +/- 30%
<b>Ink Colours</b>	B,K	<b>Commodity Code</b>	96082000

## The BST AntiBacterial Fine Liner Ink Specification

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- ✓ TSCA Listed (USA)
- ✓ Conforms to REACH standards

## The BST AntiBacterial Felt Tip Pen

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The BST antibacterial felt tip pen is designed for bold writing and the marking of items, files, boxes etc. The ink cartridge is made from nickel plated brass with a polyester ink feeder and soft nylon nib. This pen is also supplied with an antibacterial cap to prevent the pen drying out.



## The BST AntiBacterial Felt Tip Product and Packaging Information

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<b>Product Code</b>	F700AW*	<b>AntiBacterial</b>	Yes
<b>Pack Size</b>	10	<b>Housing Material</b>	Polypropylene
<b>Pack Weight</b>	0.20kg	<b>Cartridge Material</b>	Nickel Plated Brass
<b>Body Colours</b>	White	<b>Write Out Length</b>	600m +/- 30%
<b>Ink Colours</b>	B,K	<b>Commodity Code</b>	96082000

## The BST AntiBacterial Felt Tip Ink Specification

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- ✓ TSCA Listed (USA)
- ✓ Conforms to REACH standards

## Safety Certificates / Approvals

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FDA Approved

Incorporate SteriTouch®

ISO 9001:2015

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EU Compliant

Made In Britain

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## Food Contact Status (EU)

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Hereby we declare that this white antibacterial polypropylene material is manufactured in line with the relevant requirements of 2023/2006/EC on good manufacturing practice (GMP) for materials and articles intended to come into contact with food.

The raw materials used in the manufacturing process of the above mentioned material can be considered suitable for food contact applications in terms of compliance with European regulations. The raw materials used meet the relevant requirements of EU Framework Regulation 1935/2004 on materials and articles intended to come into contact with food. All monomers, starting substances and additives used

to manufacture these grades are listed in Commission Regulation (EU) No. 10 (2011) on plastic materials and articles intended to come into contact with food. Applicable restrictions on monomers, additives etc. (SML, QM) are available on request. The finished articles are required to meet the Overall Migration Limit (OML) of 10 mg/dm(sq) or 60 mg/kg food.

BST Detectable Products hereby declare that articles manufactured from this white antibacterial polypropylene are, according to EU regulations, authorised to come into direct contact with all types of foodstuffs at a maximum temperature of 40°C for a maximum time period of one hour.

## Food Contact Status (FDA)

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The polypropylene base resin used in this white antibacterial polypropylene meets the FDA (Food and Drug Administration) requirements contained in the Code of Federal Regulations – latest revision (1/4-2011) - in 21 CFR 177.1520 (a) (3) (i) , (b) and (c) (3.1a).

At the same time this base resin grade meets the FDA criteria in 21 CFR 177.1520 for food contact applications, excluding cooking, listed under conditions of use C through H in 21 CFR 176.170 (c), Table 2., and can be used in contact with all food types as listed in 21 CFR 176.170 (c), Table 1.

## Antibacterial Technology

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The BST antibacterial pen range is manufactured from Polypropylene with built in silver ion antimicrobial technology, supplied by our partners SteriTouch®. This technology offers continuous protection against cross infection, reducing the risk of spreading pathogenic germs such as MRSA, E.Coli and Salmonella. The antibacterial surface protection harnesses the natural sterilising properties of silver; this protection is permanently embedded into the Polypropylene compound and will not wear off over time.

These antibacterial properties have been laboratory tested and proven to be effective against harmful bacteria and mould including but not limited to:

### **Bacterium**

Bacillus Cereus  
Bacillus Subtilis  
Campylobacter  
Klebsiella Pneumonia  
Pseudomonas Aeruginosa  
Streptococcus Mutans  
Streptococcus Pyogenes  
Vibri Parahaemolyticus  
MRSA  
E.Coli  
Salmonella

### **Fungus**

Aspergillus Niger  
Aureobasidium Pullulans  
Candida Albicans  
Cladosporium Cladosporioides  
Fusarium Solani  
Penicillium Funiculosum

The antibacterial additive used in the Polypropylene complies with the relevant requirements of Regulation 1935/2004/EC (Framework Regulation), applicable to intermediate materials (e.g. plastic powders, plastic granules or plastic flakes) and also with the relevant requirements of Regulation 10/2011/EC (PIM), applicable to intermediate materials (e.g. plastic powders, plastic granules or plastic flakes).

The monomers and additives used to produce the antibacterial additive are listed in the Union List of Authorized Substances of Regulation 10/2011/EC. Dual use additives subject to restrictions in food as defined in Regulation 10/2011/EC are not intentionally used in the manufacture of or formulation of this product.

## Antibacterial Laboratory Testing Method

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All testing is conducted by an independent laboratory using the JIS Z 2801:2000 test method. Where possible, all test materials are taken from samples of the actual product. Samples typically measure 50mm x 50mm as specified by the JIS Z 2801:2000 method, although where this is impractical it is permissible to use smaller samples with the method being modified accordingly.

Each test sample is inoculated with a suspension of the test organism (for example MRSA). The inoculum is held in contact with the test sample using a sterile polyethylene film. All test samples are inoculated in triplicate, with an additional three replicates of the control.

The bacterial population on three control replicates is evaluated immediately following inoculation. This is assumed to be the initial population on all test samples. The remaining samples are incubated for the test period (typically 24 hours) at 35°C, at which time the bacterial population is evaluated.



## Antibacterial Laboratory Testing Results

Salmonella Results Table

Sample Material	Bacterium	CFU at 0 Hours	CFU at 24 Hours	Comparison
Control	Salmonella. enteritidis	150000	140000	N/A
BST XDETECT®	Salmonella. enteritidis	150000	<10	99.999% reduction

MRSA Results Table

Sample Material	Bacterium	CFU at 0 Hours	CFU at 24 Hours	Comparison
Control	MRSA	100000	470000	N/A
BST XDETECT® A	MRSA	100000	<10	99.998% reduction
BST XDETECT® B	MRSA	110000	<10	99.998% reduction
BST XDETECT® C	MRSA	110000	<10	99.998% reduction

E.Coli Results Table

Sample Material	Bacterium	CFU at 0 Hours	CFU at 24 Hours	Comparison
Control	E. Coli	140000	11000000	N/A
BST XDETECT® A	E. Coli	140000	<10	99.999% reduction
BST XDETECT® B	E. Coli	140000	<10	99.999% reduction
BST XDETECT® C	E. Coli	140000	<10	99.999% reduction

The information provided in this product specification sheet is based on our experience and knowledge to date and we believe it to be true and reliable. This information is intended as a guide for your use of our products, the use of which is entirely at your own discretion and risk. We, BS Teasdale & Son Ltd, cannot guarantee favourable results and assume no liability in connection with the use of our products. © 2023 BS Teasdale & Son Ltd. All Content, Data & Images are owned by BS Teasdale & Son Ltd and are protected by international copyright law. SteriTouch® is a registered trademark of Radical Materials Ltd