BST DETECTABLE MEASURING JUG

METAL DETECTABLE & X-RAY VISIBLE MEASURING JUGS

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Product Specifications BU1JU8 | Revised January 2015



Product Description:	BST stackable jugs are manufactured using our own XDETECT [®] polypropylene compound. These strong, durable jugs are fully metal detectable, x-ray visible, and incorporate silver ion antimicrobial technology, effective against harmful bacteria and mould, including E-coli, MRSA and Salmonella.
	Their conveniently designed spouts optimise the flow of liquid out of the jug, adding greater control and accuracy, and minimising any accidental spillage. The jugs feature embossed capacity markings internally and externally, in metric millilitres, imperial pints and fluid ounces. The jugs are easy to store and transport thanks to their stackable design, which allows them to be sturdily stacked up to 15 units high.
	BST XDETECT [®] is highly shatter and snap resistant, strong and durable. These properties are an integral part of material, which is designed not break into potential foreign bodies, and if does, to be highly metal detectable, x-ray visible and visually identifiable to minimise the risk of foreign body contamination as far as possible. BST stackable jugs comply with European and US food contact legislation governing food contact materials.
Product Material:	Polypropylene combined with selected non-toxic, food safe metal detectable, x-ray visible and antimicrobial additives
Product Prefix:	BU1JU8
Colour Availability:	Blue & Red
Pack Size:	1



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Products Available:	<u>Size</u>	Colour	Order Code
	1L	Blue	BU1JU81LDB
	1L	Red	BU1JU81LDR
	2L	Blue	BU1JU82LDB
	2L	Red	BU1JU82LDR

- Detectable by industry standard x-ray inspection systems
- ✓ Effective against germs and mould such as MRSA, E-Coli and Salmonella
- Can be used to form part of HACCP and BRC procedures
- Designed for better liquid flow and easy stacking and storage
- EU & FDA food contact approved material

Material Properties:

Property	Value	Test Methods
Specific Gravity:	1.11 g/cm ³	ISO 11183
Water Absorption (at saturation, 23°)	0.02 %	ISO 62
Humidity Absorption (23°/50% r.h.)	0.01 %	ISO 62
Mould Shrinkage (flow direction 3mm)	1.3 - 1.8 %	ISO 2577
Tensile Strength (Max)	20 MPa	ISO 527
Elongation at break	>300 %	ISO 527
Flexural Strength	25 MPa	ISO 178
Flexural Modulus	1.0 MPa	ISO 178
IZOD Impact Strength (Notched)	40.0 KJ/m ²	ISO 180 / 1eA
IZOD Impact Strength (Un-Notched)	No Break	ISO 180 / 1eA
Heat Distortion Temperature (1.81 MPa)	50°C	ISO 75
Heat Distortion Temperature (0.45 MPa)	80°C	ISO 75
Burning Behaviour	HB @ 3.0mm	ISO 1210

Antimicrobial Performance: BST stackable jugs are supplied 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 compound and will not wear off over time.



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The antibacterial additives used in **X**DETECT® have comprehensive approvals, including those necessary for food contact approval. The active components used in SteriTouch® additives comply with the legistlative requirements for most overseas territories, including Europe, USA, Australasia and the Far East.

Full test results and certification are available upon request.

Food Contact Status: EU & FDA Approval

Herewith we declare that the raw materials used in the manufacturing process of BST XDETECT® (PP-C-2009) 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 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.

Colourants used are compliant with **European Council Resolution AP(89) 1** on the use of colourants in plastic materials coming into contact with food. BST XDETECT® is compliant with **Directive 1895/2005/EC** on the restriction of use certain epoxy derivatives (BADGE, BFDGE, NOGE), since the latter substances are not intentionally used in the manufacturing process of the compound.

The polypropylene resin used meets the FDA (US Food & 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 grade meets the FDA criteria in 21 CFR 177.1520 for food contact applications listed under conditions of use A 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. Also the mineral additives are GRAS (Generally Recognised As Safe) or are FDA cleared under specific FDA citations.

REACH Compliance and SVHC

The REACH legislation 1907/2006/EC, dealing with the Registration, Evaluation and Authorisation of Chemicals, entered into force on 1st June 2007 and required manufacturers and/or importers to preregister and/or register chemical substances in accordance with the procedures and timelines prescribed within the Regulation.

Herewith we can confirm that our raw material suppliers (manufacturers or importers) have preregistered the monomers and relevant additives to produce polymer raw materials before 1st December 2008 and are now actively preparing for registration of preregistered substances through participation in Substance Information Exchange Forums (SIEF's) and consortia.

At the same time we hereby confirm that BST do not intentionally use any of the Substances of Very High Concern (SVHC) as listed by ECHA as defined in Article 57 of Regulation 1907/2006/EC (latest update on 19th December 2011) in concentrations above 0.1% by weight in our compound.

RoHS Compliance (2011/65/EC, amending 2002/95/EC)

BST do not intentionally add any lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyls and/or polybrominated diphenyl ethers during the manufacturing process of our compounds. This statement applies to the following substances:



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Hexavalent chromium compounds	< 0.1%
Cadmium and its components	< 0.01%
Mercury and its compounds	< 0.1%
Lead and its compounds	< 0.1%
Polybrominated diphenyl ethers (PBDEs)	< 0.1%
Polybrominated biphenyls (PBBs)	< 0.1%
Pentabromodiphenyl ether	< 0.1%
Octabromodiphenyl ether	< 0.1%
Decabromodiphenyl ether	< 0.1%

Furthermore, based upon our knowledge of the manufacturing process and information provided by our compound suppliers, we would not expect these substances to be present in our final product. Analysis for these chemicals is not routinely performed on our final products however.

Detectability Information: BST XDETECT[®] is an electromagnetically detectable and x-ray visible plastic compound. The detectability and visibility of this compound will vary based on, but not limited to:

- Calibration Levels
- Product Type (E.g. Wet, Dry, Frozen, Liquid)
- Aperture Dimensions
- Orientation

XDETECT® has been tested on most of the major manufacturers detection systems with excellent results, including:

- Mettler Toledo / Safeline
- Lock
- Goring Kerr

Testing Information: BST recommend that all our products be thoroughly tested on your metal detection systems by a trained and certified professional. It may the case that your equipment may need to be recalibrated in order to reliably detect this product.

Such a professional should be available by contacting the manufacturer of your metal detection system.

DISCLAIMER

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.

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