

BST Metal Detectable Shovel Range | SH1SH*



BST Metal Detectable Shovel Range

These food safe shovels feature metal detectable blades, combined with a strong, non-detectable polypropylene shaft. They are ideal for transferring ingredients from deep containers and other food handling applications.

The detectable blades and solid reinforced shafts ensure that these shovels are lightweight, durable and easy to clean - great all round shovels. We also offer extended shafts which are ideal for jobs requiring that extra reach.

Our range of shovels are specifically developed for the food processing industry and use a specially formulated high impact, food grade polypropylene, with the blade also incorporating metal detectable additive. The strength of this shovel makes it virtually unbreakable, as well as being lightweight, easy to clean and store, offering excellent wear resistance, and reduces the risk of damage to floor surfaces and machinery.

Metal Detectable Shovel Advantages

- ✓ Hygienic design eliminates bacteria traps & improving hygiene
- ✓ Five bright colours to choose from for easy visual identification
- ✓ Highly durable, lightweight and provides excellent wear and tear resistance
- ✓ Reduced risk of damage to floor surfaces and machinery
- ✓ Can be used as part of HACCP and BRC procedures
- ✓ Displays due diligence in the prevention of foreign body contamination

Hand Shovels

These small, deep and durable hand shovels are ideal for transferring ingredients and are easy to clean. With reinforced detectable flared blades, they are a must have versatile tool designed specifically for food and hygiene uses. Each product is virtually unbreakable, lightweight, easy to clean and store, has excellent wear resistance whilst reducing the risk of damage to floor surfaces and machinery.



Small Blade Hand Shovel



Standard Blade Hand Shovel

Product and Packaging Information

Small Blade	SH1HS3SLM*	Dimensions	242 x 264 x 478mm
Pack Weight	0.51kg	Handle	Standard with end cap
Standard Blade	SH1HS3SSM*	Dimensions	247 x 315 x 527mm
Pack Weight	0.59kg	Handle	Standard with end cap
Pack Size	1	Material	Polypropylene
Product Colours	B,R,G,Y,W	Detectability	Metal Detectable
Temperature Range	-30 ~ 80°C	Commodity Code	39269097

Small Blade Shovels

This small, detectable flared blade and solid reinforced shaft is available with a T-Grip handle, it has a detectable blade and is ideal for transferring ingredients from a deep container. The solid reinforced shaft guarantees strength and durability making this shovel virtually unbreakable.



Product and Packaging Information

Product Code	SH1SH4TTLT*	Dimensions	242 x 264 x 917mm
Pack Size	1	Handle Option	T Grip
Pack Weight	1.03kg	Material	Polypropylene
Product Colours	B,R,G,Y,W	Detectability	Metal Detectable
Temperature Range	-30 ~ 80°C	Commodity Code	39269097

Standard Blade Shovels

This standard blade shovel is available with T-Grip, D-Grip or Extended D-Grip Handle options. The standard detectable blade and solid reinforced shaft ensure that this shovel is lightweight, durable and easy to clean. A great all round shovel. The extended shafts are available for jobs requiring that extra reach.



Product and Packaging Information

T Grip	SH1SH4TST*	Dimensions	247 x 315 x 966mm
Pack Weight	1.08kg	Handle	T Grip
D Grip	SH1SH4DST*	Dimensions	247 x 315 x 978mm
Pack Weight	1.07kg	Handle	D Grip
Extended D Grip	SH1SH4DET*	Dimensions	247 x 315 x 1103mm
Pack Weight	1.18kg	Handle	Extended D Grip
Pack Size	1	Material	Polypropylene
Product Colours	B,R,G,Y,W	Detectability	Metal Detectable
Temperature Range	-30 ~ 80°C	Commodity Code	39269097

Large Blade Shovels

This large blade shovel is available with T-Grip, D-Grip or Extended D-Grip Handle options. They have a detectable blade and are designed to handle bulky (but lightweight) foodstuffs and materials. With a bonded, solid reinforced shaft this shovel makes light work of the heaviest jobs. Extended shafts available for jobs requiring extra reach.



Product and Packaging Information

T Grip	SH1SH4TGM*	Dimensions	334 x 410 x 1022mm
Pack Weight	1.55kg	Handle	T Grip
D Grip	SH1SH4DGT*	Dimensions	334 x 410 x 1035mm
Pack Weight	1.55kg	Handle	D Grip
Extended D Grip	SH1SH4DELM*	Dimensions	334 x 410 x 1159mm
Pack Weight	1.64kg	Handle	Extended D Grip
Pack Size	1	Material	Polypropylene
Product Colours	B,R,G,Y,W	Detectability	Metal Detectable
Temperature Range	-30 ~ 80°C	Commodity Code	39269097

One Piece Shovels

These one piece D-Grip shovels are manufactured to the highest specification and standards expected by the food industry worldwide, the one piece shovel is a single piece of solid detectable polypropylene and is the ultimate in hygienic control. Available in both standard and large blades.



Product and Packaging Information

Standard One Piece	SH1SH4D1SM*	Dimensions	279 x 362 x 1107mm
Pack Weight	1.8kg	Handle	D Grip
Large One Piece	SH1SH4D1GM*	Dimensions	347 x 410 x 1110mm
Pack Weight	2.09kg	Handle	D Grip
Pack Size	1	Material	Polypropylene
Product Colours	B,R,G,Y,W	Detectability	Metal Detectable
Temperature Range	-30 ~ 80°C	Commodity Code	39269097

Safety Certificates / Approvals

FDA Approved

BRC Compliant

Made In Britain

EU Compliant

ISO 9001:2015



Materials

Manufactured from a material based on high-impact, food contact approved polypropylene. The material contains full and uniform dispersion of ferrous based detectable elements throughout the product.

Declaration of Conformity for Food Contact Applications

Results summary:

Migration Test Result Summary:	Conclusion
European Commission regulation (EU) No 10/2011	
Finished moulded product: Migration Test	PASS

The migration from the material was less than the maximum permitted by the Regulations.

Specific Migration Of Metals Test Result Summary:	Conclusion
European Commission regulation (EU) No 10/2011	
Specific Migration of Metals	PASS

FDA Test Result Summary:	Conclusion
US FDA 21 CFR 177.1520 (Olefin Polymers) Polypropylene copolymer	PASS

The raw material used in the manufacturing of this product does not contain silicone

U.S Food & Drug Administration Testing

Results: US FDA 21 CFR 177.1520 (Olefin Polymers) Polypropylene Copolymer.

Extractable Fraction: With reference to US US FDA 21 CFR 177.1520 d (3) (ii). Sample preparation in n-hexane at 50°C for 2 hours.

	Result (%w/w)	Reporting Limit (% w/w)	Reference Limit (%w/w)
Extractable Fraction	3.0	0.1	5.5
Comment	PASS	-	-

Soluble Fraction: With reference to US US FDA 21 CFR 177.1520 d (4) (ii). Sample preparation in xylene at 25°C for 2 hours.

	Result (%w/w)	Reporting Limit (% w/w)	Reference Limit (%w/w)
Soluble Fraction	9.2	0.1	30.0
Comment	PASS	-	-

Note: 1. %(w/w) = Percent by weight by weight

2. ND = Not detected

3. °C = Degree Celsius

All testing has been carried out by UKAS accredited testing laboratory.

Overall Migration Testing

The materials were tested in accordance with requirements of the Plastic Materials and Articles in Contact with Food Commission regulation (EU) No. 10/2011 following Methods BSEN 1186:2002. The Regulations require that no plastic material shall be capable of transferring its constituents to food which it may come into contact in quantities exceeding the appropriate limit. For the material the appropriate limit is 10 mg/dm².

Simulant	Conditions	
3% Acetic Acid	24 Hours at 40°C	2.4 mg/dm ²
95% Ethanol	24 Hours at 40°C	1.6 mg/dm ²
Iso-octane	4 Hours at 20°C	<4.2 mg/dm ²

Test Result Summary:	Conclusion
European Commission regulation (EU) No 10/2011	
Finished moulded product: Migration Test	PASS

Specific Migration of Metals Testing

Method: Sample preparation in 3% acetic acid (w/v) in aqueous solution at 70°C for 2 hours with reference to EN 13130-1:2004; followed by analysis using Inductively Coupled Argon Plasma Spectrometry (ICP).

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Reporting Limit (mg/kg)
Specific Migration of Barium	ND	0.25	1
Specific Migration of Cobalt	ND	0.03	0.05
Specific Migration of Cooper	ND	0.25	5
Specific Migration of Iron	ND	0.25	48
Iso-octane Specific Migration of Lithium	ND	0.5	0.6
Specific Migration of Manganese	ND	0.25	0.6
Specific Migration of Zinc	ND	0.5	25
Comment	PASS	-	-

- Note:
1. mg/kg = Milligram per kilogram of foodstuff in contact with
 2. °C = Degree Celsius
 3. ND = Not Detected

Declaration of absence Silicone

On the basis of our knowledge of the manufacturing process and information provided by raw material suppliers. Contains Polydimethylsiloxane CAS 63148-62-9, 0,0060%

Metal Detectability

This product is manufactured from electromagnetically detectable plastic compound. This compound contains evenly dispersed non-toxic detectable additives, making the material detectable by correctly calibrated metal detection systems. Metal detectability performance will vary based on, but not limited to the following factors:

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

Orientation is a highly influential factor for the metal detectability of a contaminant that is non spherical, i.e. it will be easier to detect the contaminant when passing in one orientation compared to another - this is known as the orientation effect.

For this reason BST recommend that all our products be thoroughly tested on your metal detection systems by a trained and certified professional. It may be the case that your equipment needs to be re-calibrated in order to reliably detect this product. Such a professional should be available by contacting the manufacturer of your metal detection system.

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. © 2020 BS Teasdale & Son Ltd. All Content, Data & Images are owned by BS Teasdale & Son Ltd and are protected by international copyright law.

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