

 **SP Bel-Art**

# TOOLS FOR SAMPLE HANDLING



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# Sample Handling - Scoops

## Sterileware® Sterile Sampling Scoops - White



### 3 Convenient Sizes

- Sterile for one time use and disposal
- Long handle on 2oz and 4oz scoops reduces contamination potential
- FDA grade polystyrene, safe for food, drug and cosmetic use



2 and 4oz Scoops have a longer handle and a flat bottom

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CATALOG NO.	CAPACITY	HANDLE LENGTH	QUANTITY/PACK
14-241-10A	60ml (2oz)	12.7cm (5")	100
03-990-223	60ml (2oz)	12.7cm (5")	10
14-241-10B	125ml (4oz)	12.7cm (5")	100
03-990-224	125ml (4oz)	12.7cm (5")	10
14-241-10C	250ml (8oz)	5.6cm (2 <sup>3</sup> / <sub>16</sub> "	100
03-990-225	250ml (8oz)	5.6cm (2 <sup>3</sup> / <sub>16</sub> "	10

## Sterileware® Sterile Sampling Scoops - Red



### Sterile for One Time Use and Disposal

- Bright red color reduces chance of the scoop being accidentally left behind in a sample
- Long handle on 2oz and 4oz scoops reduces contamination potential
- Sterile, FDA grade polystyrene, safe for food, drug and cosmetic use

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CATALOG NO.	CAPACITY	HANDLE LENGTH	QUANTITY/PACK
14-241-201	60ml (2oz)	12.7cm (5")	100
03-990-226	60ml (2oz)	12.7cm (5")	10
11-391-301	125ml (4oz)	12.7cm (5")	100
03-990-227	125ml (4oz)	12.7cm (5")	10
08-647-760	250ml (8oz)	5.6cm (2 <sup>3</sup> / <sub>16</sub> "	100
03-990-228	250ml (8oz)	5.6cm (2 <sup>3</sup> / <sub>16</sub> "	10

# Sterileware® Sense-able Scoops® Metal Detectable, Sterile Sampling Tools

## Metal and X-ray Detectable Plastic Scoops

### U.S. Patent 6,915,712 B1

- Scoops and scoop fragments as small as 1.6mm<sup>3</sup> can be detected with standard metal detection and X-ray equipment
- Sterile, FDA grade polystyrene, safe for food, drug and cosmetic use
- Long handle on 2oz and 4oz scoops reduces contamination potential

Test compatibility with your metal detection equipment. Request a free sample at [bit.ly/382LLOx](http://bit.ly/382LLOx)



Testing Parameters



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CATALOG NO.	CAPACITY	HANDLE LENGTH	QUANTITY/PACK
14-375-612	60ml (2oz)	12.7cm (5")	100
14-375-613	125ml (4oz)	12.7cm (5")	100
14-375-614	250ml (8oz)	5.6cm (2 <sup>3</sup> / <sub>16</sub> "	100

## Sterileware® Samplit Scoop and Container System

### Self-Contained Sampling System

#### U.S. Patents 6,440,373; D438,979

- Sturdy scoop with leak-proof 190ml (6.5oz) container; sterile or non-sterile
- Strong enough for coring semi-solids such as cheese, ice cream, soil or granular materials
- FDA grade polystyrene, safe for food, drug and cosmetic use



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CATALOG NO.	DESCRIPTION	QUANTITY/PACK
14-100-170	25 Sterile, Individually Wrapped Samplit™ Scoops and Containers	25
14-512-60	25 Non-sterile Samplit™ Scoops and Containers	25
03-421-148	25 Non-sterile Samplit™ Scoops only	25

## Sterileware® Bent Handle Sterile Scoops

### Prevent Source Contamination

- Curved handle positions hand further from sample when compared to straight handle scoops
- Reduces possibility of sample contamination and exposure of hands or personal protective equipment (PPE) to unwanted substances
- Sterile, FDA grade polystyrene, safe for food, drug and cosmetic use



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CATALOG NO.	CAPACITY	HANDLE LENGTH	QUANTITY/PACK
14-241-202	60ml (2oz)	11.6cm (4 <sup>5</sup> / <sub>16</sub> "	10
14-241-203	125ml (4oz)	9.8cm (3 <sup>7</sup> / <sub>16</sub> "	10

# Sample Handling - Scoops

## Sterileware® Sterile Scoop Sampling System



### Snap-On Lid Contains Contents In Scoop

- Snap-on lid eliminates the cost of separate sterile bags or containers
- FDA grade polystyrene, safe for food, drug and cosmetic use
- Sterile, one-time use; Long handle reduces contamination potential

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CATALOG NO.	CAPACITY	HANDLE LENGTH	QUANTITY/PACK
22-163576	60ml (2oz)	12.7cm (5")	100
03-990-221	60ml (2oz)	12.7cm (5")	10
14-241-15B	125ml (4oz)	12.7cm (5")	100
03-990-222	125ml (4oz)	12.7cm (5")	10

## Sterileware® Scoop an' Bag Sterile Sampler

### Ideal for Food, Pharmaceutical and Environmental Sampling

- Individually sealed and sterilized sets
- FDA grade polystyrene 60ml (2oz) sampling scoop and sterile 11.4 x 22.9cm (4½ x 9") polyethylene bag
- Long handle keeps the hand away from the sample



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CATALOG NO.	CAPACITY	HANDLE LENGTH	QUANTITY/PACK
14-512-61	60ml (2oz)	12.7cm (5")	50

## Polypropylene Scoops

### Six Sizes to Choose From

- Rugged polypropylene; steam autoclavable at 121°C (250°F)
- Comply with FDA regulations for food, drug and cosmetic use
- Flat bottom keeps scoops upright when filled or empty



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CATALOG NO.	CAPACITY	HANDLE LENGTH	QUANTITY/PACK
14-237-1	22ml (0.74oz)	3.2cm (1¼")	12
03-410-803	60ml (2oz)	12.7cm (5")	12
14-237-2	75ml (2.5oz)	4.8cm (1⅝")	12
14-237-6	125ml (4oz)	12.7cm (5")	12
14-237-3	250ml (8oz)	5.6cm (2⅜")	12
14-237-5	1100ml (37.2oz)	10.3cm (4⅛")	6

## Sterileware® Economy Sampling Scoops

### Durable, High-Impact Polystyrene

- Economical, accurate measure for dry or liquid sample collection
- Leveling the sample to the flat top edge ensures a repeatable and consistent volume measure
- Sterile, FDA grade polystyrene, safe for food, drug and cosmetic use



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CATALOG NO.	CAPACITY	QUANTITY/PACK
<b>Sterile</b>		
14-245-51	63ml	50
14-245-52	83ml	50
14-245-53	125ml	50
14-100-175	250ml	50
<b>Non-sterile</b>		
14-245-55	63ml	12
14-245-56	83ml	12
14-245-57	125ml	12
14-245-58	250ml	12

# Sample Handling - Scoops / Spoons

## Fluo-Kem® Teflon® FEP Coated Aluminum Scoops

### FDA Compliant for Food Contact



- Anti-stick Fluo-Kem® Teflon® coated scoop containing FEP
- Complies with FDA regulations for food, drug and cosmetic use
- Handle is not coated so your grip is non-slip

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CATALOG NO.	CAPACITY	HANDLE LENGTH	QUANTITY/PACK
14-100-172	1 liter (1 quart)	8.3cm (3¼")	1
14-100-173	2 liters (½ gallon)	10.2cm (4")	1
14-100-174	4 liters (1 gallon)	10.2cm (4")	1

## Large Cylindrical Scoops

### Practical Non-Spill Design in Three Sizes

- Excellent for scooping dry powders, granules or crystals
- Closed back, non-spill shape
- Ergonomically angled handle



CATALOG NO.	CAPACITY	HANDLE LENGTH	QUANTITY/PACK
14-100-171	1 liter (1 quart)	12.7cm (5")	1
22-164459	2 liters (½ gallon)	12.7cm (5")	1
22-164533	4 liter (1 gallon)	12.7cm (5")	1

## Mini Sampler Spoons

### Disposable Mini Measures

- Ideal for retrieving small, specific volume samples
- High-impact polystyrene
- 5 small volume sizes to suit your needs



CATALOG NO.	CAPACITY	QUANTITY/PACK
03-410-517	0.05ml (0.0016 oz)	25
03-410-518	0.10ml (0.0034 oz)	25
03-410-519	0.25ml (0.0085 oz)	25
03-410-520	0.50ml (0.017 oz)	25
03-410-521	1.00ml (0.034 oz)	25

## Sterileware® Large Sampling Spoon

### Ideal for Sampling Semi-solids, Viscous Liquids or Bulk Materials

- Large spoon is ideal for sampling semi-solids, viscous liquids or bulk materials
- Sterile, FDA grade polystyrene, safe for food, drug and cosmetic use
- Long handle reduces contamination potential



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CATALOG NO.	CAPACITY	QUANTITY/PACK
14-512-62	30ml (1oz.)	25

# Sterileware® Long Handle Sampling Spoons



## Sterile, Small Sample Collection

- Sterile, FDA grade polystyrene safe for food, drug and cosmetic use
- Long handle reaches into jars, bottles and other confined areas
- Minimizes the potential of personal contact with sampled material

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CATALOG NO.	CAPACITY	QUANTITY/PACK
14-429A	1.25ml (¼tsp)	200
03-990-229	1.25ml (¼tsp)	10
14-429B	2.46ml (½tsp)	200
03-990-230	2.46ml (½tsp)	10
14-429C	4.93ml (1tsp)	200
03-990-231	4.93ml (1tsp)	10
14-429D	14.79ml (3tsp)	200
03-990-232	14.79ml (3tsp)	10

## Long Handle Sampling Spoons

### For Smaller Sampling Requirements



- Long handle reaches into jars, bottles and other confined areas
- Minimizes the potential of personal contact with sampled material
- FDA grade polypropylene plastic, safe for food, drug and cosmetic use



CATALOG NO.	CAPACITY	QUANTITY/PACK
03-990-242	1.25ml (¼tsp)	12
22-261541	2.46ml (½tsp)	12
22-261542	4.93ml (1tsp)	12
22-261543	14.79ml (3tsp)	12
22-261544	Assortment: 3 of each size (¼tsp, ½tsp, 1tsp, 3tsp)	12

# Sample Handling - Spoons

## Earth-Friendly Long Handle Sampling Spoons

### Eco-Friendly Sampling for Small Quantities

- Green alternative to petroleum-based sampling tools; helps meet sustainability goals
- Long handle reaches into jars, bottles and other confined areas
- FDA grade spoons are safe for food, drug and cosmetic contact



CATALOG NO.	CAPACITY	QUANTITY/PACK
14-512-207	1.25ml (¼ tsp)	10
14-512-208	2.46ml (½tsp)	10
14-512-209	4.93ml (1tsp)	10

## Earth-Friendly Wide Handle Sampling Spoons

### Environmentally Conscious Sampling

- Green alternative to petroleum-based sampling tools; helps meet sustainability goals
- FDA grade spoons are safe for food, drug and cosmetic contact
- Comparable in strength and durability to polystyrene, polypropylene and other plastic resin sampling tools



CATALOG NO.	CAPACITY	QUANTITY/PACK
14-512-200	1.25ml (0.04oz)	10
14-512-201	2.5ml (0.08oz)	10
14-512-202	5.0ml (0.17oz)	10
14-512-203	8.0ml (0.27oz)	10
14-512-204	20.0ml (0.67oz)	10

## Sterileware® Economy Sample Spoons

### Economical Solution for Small Quantities of Dry or Liquid Measures



- Economical option for retrieving small, specific volume samples of powders or liquids
- Sterile, FDA grade polystyrene, safe for food, drug and cosmetic use
- Unique flat bottom shape allows them to be used as weighing boats



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CATALOG NO.	CAPACITY	QUANTITY/PACK
<b>Sterile</b>		
03-410-631	1.25ml (0.04oz)	100
03-990-233	1.25ml (0.04oz)	10
03-410-632	2.5ml (0.08oz)	100
03-990-234	2.5ml (0.08oz)	10
03-410-633	5.0ml (0.17oz)	100
03-990-235	5.0ml (0.17oz)	10
03-410-634	8.0ml (0.27oz)	100
03-990-236	8.0ml (0.27oz)	10
03-410-645	20ml (0.67oz)	100
03-990-237	20ml (0.67oz)	10
<b>Non-sterile</b>		
03-410-636	1.25ml (0.04oz)	12
03-410-637	2.5ml (0.08oz)	12
03-410-638	5.0ml (0.17oz)	12
03-410-639	8.0ml (0.27oz)	12
03-410-640	20.0ml (0.67oz)	12



## Stainless Steel Balance Spoons

### Choice of Polished Steel or Non-Stick Teflon®



- Easily transfer small quantities of materials
- 17cm (6.7") length useful for reaching into containers
- Square trough-type spoon end: 44 x 8.9mm (1.75 x 0.35")



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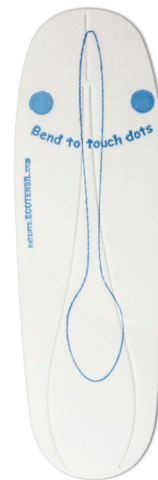


CATALOG NO.	DESCRIPTION	CAPACITY	QUANTITY/PACK
22-261533	Stainless steel	1ml	2
22-405384	Stainless steel with Teflon® FEP coating	1ml	2

## EcoTensil Disposable Paper Sampling Spoon

### Coated Paper Stands Up to Gels and Semi-Solids

- Stores flat; easily folds into a functional spoon for sampling and retrieving materials
- Coated to stand up to powders, gels, and semi-solids
- Use 50% - 90% less material and space than the same amount of plastic spoons



Try Before You Buy  
[bit.ly/382LLox](http://bit.ly/382LLox)

Product Video  
[bit.ly/37WWVuS](http://bit.ly/37WWVuS)



CATALOG NO.	DIMENSIONS (L x W)	APPROXIMATE CAPACITY	QUANTITY/PACK
03-990-265	5 x 1.5" (12.7 x 3.8 cm)	10ml	416

NOTE: EcoTensil Spoons are not meant for measuring exact quantities of materials.

## Ellipso-Spoon® and Spatula Samplers



### Unique Shape Means No Missed Sample in Corners

- Curved shape permits contact with container corners
- Crystals, powders, granulated and solid substances, and thick liquids are easily retrieved
- Polished 304 grade stainless steel



CATALOG NO.	BOWL CAPACITY	LENGTH	QUANTITY/PACK
14-375-55	10ml	15cm	1
14-375-56	10ml	21cm	1
03-990-260	10ml	25cm	1
14-375-57	70ml	30cm	1
14-375-58	70ml	40cm	1
03-990-246	70ml	50cm	1

# Sample Handling - Spoons

## Stainless Steel Lab Spoon and Spatula

### Extra Length for Sampling from Larger Bottles



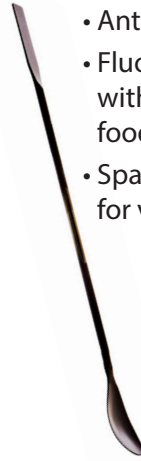
- Long handle reaches into large containers
- Flat spatula end measures 3.1cm (1¼") wide
- Spoon end is 3.7cm (1½") wide and holds 5ml



CATALOG NO.	LENGTH	QUANTITY/PACK
03-990-241	30.5cm (12")	1

## Stainless Steel Coated Lab Spoon and Spatula

### Coated with Fluo-Kem® Teflon®



- Anti-stick, corrosion-resistant surface
- Fluo-Kem® Teflon® FEP coating complies with FDA regulations governing direct food, drug and cosmetic contact
- Spatula and spoon ends for varying needs



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CATALOG NO.	OVERALL LENGTH	QUANTITY/PACK
03-990-240	22.9cm (9")	1

## Stainless Steel Spoons

### Double-Ended with Two Bowl Sizes

- 304 stainless steel sampling spoons
- Polished or coated with Fluo-Kem® Teflon® FEP
- FEP complies with FDA regulations governing direct food, drug and cosmetic applications



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CATALOG NO.	SMALL SPOON	LARGE SPOON	LENGTH	QUANTITY/PACK
<b>304 Grade Stainless Steel</b>				
22-261545	0.5ml	2.0ml	15cm	2
03-990-243	0.8ml	2.8ml	18cm	2
22-261547	1.6ml	3.0ml	21cm	2
03-990-244	1.8ml	5.0ml	25cm	2
14-429E	2.0ml	8.0ml	30cm	2
<b>Fluo-Kem® Teflon® FEP Coated Ends</b>				
14-100-179	0.5ml	2.0ml	15cm	2
14-100-180	1.6ml	3.0ml	21cm	2
03-990-245	2.0ml	8.0ml	30cm	2

## Sterileware® Sampling Spatulas

### V-Shaped Spatula Ideal for Caked Granules or Powder

- Sturdy point for taking sterile samples and for piercing plastic-lined packages
- V-shape simplifies transferring powdered, flaked, crystalline or granular media
- 14" spatula for dislodging caked or crystallized reagents from deep within tall containers



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CATALOG NO.	DESCRIPTION	OVERALL LENGTH	APPROXIMATE CAPACITY	QUANTITY/PACK
14-358-20	Sterileware 9" Spatula	22.9cm (9")	15cc	100
16-241-210	Sterileware 14" Spatula	35.6cm (14")	23cc	50
03-421-149	Non-sterile 9" Spatula	22.9cm (9")	15cc	12

## Earth-Friendly 1001 Sticks

### An Indispensable Tool with No End to Its Uses



- Green alternative to petroleum-based sampling tools; helps meet sustainability goals
- Comparable in strength and durability to polystyrene, polypropylene and other petroleum-based plastic resin sampling tools
- Non-sterile FDA grade safe for food, drug and cosmetic contact



CATALOG NO.	DIMENSIONS (L x W x H)	QUANTITY/PACK
14-512-205	14.6 x 1.9 x 0.15cm (5¾ x ¾ x ⅙")	100
14-512-206	14.6 x 1.9 x 0.15cm (5¾ x ¾ x ⅙")	500

## Reagent Digger

### The Ideal Utensil for Retrieving Stubborn Samples

- Dislodge stubborn, caked or crystallized reagents from deep inside containers
- Stainless steel, ergonomically designed tool
- Shape facilitates scooping, shoveling, digging and measuring of all powdered, flaked, crystalline or granular media



CATALOG NO.	LENGTH	QUANTITY/PACK
11-865-141	22.9cm (9")	1

# Sample Handling - Spatulas

## Micro Spoon and Spatula Weighing Set

### Accurate Handling of Minute Quantities

- Six different, small size, double-ended tools and a pair of tweezers suit small sample handling needs
- Polished stainless steel for long life and easy cleaning
- Carrying case protects and organizes tools when not in use



CATALOG NO.	DESCRIPTION	QUANTITY/PACK
11-865-130	7 pc. Micro Tool Set	1



## Quaverette® Micro-Blade Vibrating Spatulas

### Micro-Blade Reaches Into Small Containers and Tight Corners

- Narrow V-shaped blade maneuvers easily into small mouth containers and tight corners
- Rotating thumb wheel vibrates spatula for precise control over material transfer
- Stainless steel or Fluo-Kem® Teflon® FEP coated blade



Product Video  
[bit.ly/37WWVuS](http://bit.ly/37WWVuS)

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CATALOG NO.	DESCRIPTION	QUANTITY/PACK
14-430	Stainless steel blade	1
03-422-601	Brown Teflon® FEP coated stainless steel blade	1

## Quaver® Vibrating Spatulas

### Adds that Last Grain of Powder to Make the Desired Weight

- Rotating thumb wheel vibrates spatula for precise control over material transfer
- Stainless steel or Fluo-Kem® Teflon® FEP coated blade
- Teflon® coating complies with FDA regulations governing direct food contact



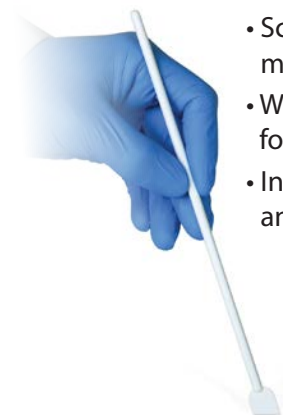
Product Video  
[bit.ly/37WWVuS](http://bit.ly/37WWVuS)

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CATALOG NO.	DESCRIPTION	QUANTITY/PACK
22-385039	Stainless steel blade	1
22-385047	Brown Teflon® FEP coated stainless steel blade	1

## Policeman – Polypropylene



- Scrape, spread and transfer materials without scratching
- Wide flattened end is ideal for larger work areas
- Inert, chemical resistant and steam autoclavable



CATALOG NO.	LENGTH	QUANTITY/PACK
22-261768	20.3cm (8")	6

## Policeman – Teflon®



- Useful for scraping and transferring materials
- Steam autoclavable at 121°C (250°F).
- 7.9mm (<sup>5</sup>/<sub>16</sub>) diameter Teflon® PTFE rod with flattened ends



CATALOG NO.	LENGTH	QUANTITY/PACK
22-261767	25.4cm (10")	1

## Large Polyethylene Policeman



### Steel Reinforced Polyethylene

- Rigid steel rod handle enclosed in polyethylene
- Tapered flattened end is efficient for scraping and transferring of material



CATALOG NO.	LENGTH	QUANTITY/PACK
22-201087	20.3cm (8")	6

## Stainless Steel Micro Spatulas

### Fluo-Kem® Teflon® FEP Coated Stainless Steel

- Stainless steel rod with flat ends coated in Teflon® FEP
- Complies with FDA regulations governing direct food contact applications
- Available with straight or tapered blade



14-100-176



14-100-177



14-100-178

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CATALOG NO.	DESCRIPTION	QUANTITY/PACK
14-100-176	2.7mm diameter x 19cm long (0.105 x 7½") tapered to 3mm (¼")	2
14-100-177	4mm diameter x 18.4cm (0.156 x 7¼")	2
14-100-178	4mm diameter x 18.4cm (0.156 x 7¼") tapered to 0.8mm (1/32")	2

## Stirring Rod - Polypropylene

### Autoclavable to Avoid Contamination

- Solid polypropylene stirring rod with rounded end
- Useful for mixing chemicals and liquids
- Steam autoclavable



CATALOG NO.	DIAMETER	LENGTH	QUANTITY/PACK
22-216010	4.7mm (3/16")	20.3cm (8")	6

# Sample Handling - Tongs & Forceps

## Sterileware® Sterile Mini Tongs

### Ridged Jaws Securely Hold Wet or Dry Samples

- Ideal for sampling small quantities of material ranging from food to pharmaceuticals
- Lightweight
- Sterile, FDA grade polystyrene, safe for food, drug and cosmetic use



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CATALOG NO.	LENGTH	QUANTITY/PACK
14-809-176	11cm (4¼")	25

## Polypropylene Forceps

### Serrated Tips for Secure Grasp

- Strong and durable
- Steam autoclavable

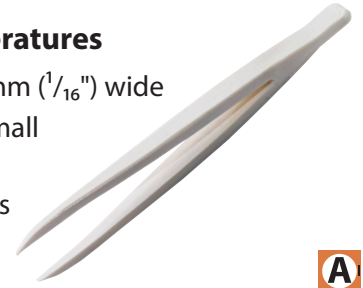


CATALOG NO.	LENGTH	QUANTITY/PACK
10-309-1	12.7cm (5")	6

## Tefzel Forceps

### Withstands High Temperatures

- Smooth square tips 1.6mm (1/16") wide
- Excellent for handling small balance weights
- Withstands temperatures up to 199°C (390°F)



CATALOG NO.	LENGTH	QUANTITY/PACK
22-261826	11.4cm (4½")	1

## Teflon® Coated Steel Forceps

### Meets FDA Regulations Involving Food Contact

- Will not scratch or mar delicate surfaces
- Anti-stick qualities prevent material build-up
- Teflon® FEP coating complies with FDA regulations for direct contact with food



22-107052

22-124768

22-261828

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CATALOG NO.	COATED LENGTH	QUANTITY/PACK
22-124768	38mm (1½" tip)	2
22-107052	19mm (¾" tip)	2
22-261828	Full Coating, 98mm (3¾")	2

## Cover Glass Forceps

### Wide Tips for Lifting Cover Glasses

- Will not scratch or mar delicate surfaces
- Teflon® FEP coating complies with FDA regulations for direct contact with food



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CATALOG NO.	DESCRIPTION	QUANTITY/PACK
22-124586	Bent- 10.2cm (4") long	2
22-124370	Straight- 11.4cm (4½") long	2

## Curved Forceps

### Gently Curved Stainless Steel for Exacting Work

- Exceptionally fine, curved tips
- Serrated for enhanced grip
- Teflon® FEP coating complies with FDA regulations for direct contact with food



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CATALOG NO.	LENGTH	QUANTITY/PACK
14-100-181	9.8cm (3¾")	2

## Stainless Steel Tongs

### Teflon® Coated Tips for Quick Release

- Stainless steel, laboratory type tongs with Teflon® FEP coating
- Anti-stick surface for easy material handling and release
- Coating complies with FDA regulations governing direct food contact applications



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CATALOG NO.	LENGTH	QUANTITY/PACK
22-282806	23cm (9")	1

## Sample Cutter Set

### Multi Function Tool

- Three tined fork with sharp rocker knife on back edge
- Sold in pairs for holding material still while cutting
- Autoclavable at 121°C (250°F); commercial dishwasher safe

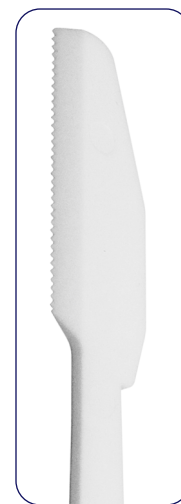


CATALOG NO.	LENGTH	QUANTITY/PACK
01-816-17	19cm (7.5")	2

## Sterileware® Sterile Sampling Knife

### Ideal for Cutting Small Samples from Fibrous Pieces

- Double edge blade; serrated on one edge and smooth on the other
- Serrated edge capable of cutting seafood, meat, poultry, vegetables and other fibrous materials
- Sterile FDA grade polypropylene plastic, safe for food, drug and cosmetic use



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CATALOG NO.	OVERALL LENGTH	QUANTITY/PACK
14-358-10	20.9cm (8¼")	200

# Sample Handling - Pestles & Mixers

## Micro-Tube Homogenizer System

### Effectively Homogenize Precipitates, Cells and Tissues

- Hand-held, cordless homogenizer features a simple push in / pull out pestle exchange
- Pestles and tubes assure tight tolerances and thorough homogenization and grinding of materials resulting in optimal efficiency of pellet reconstitution or re-suspension
- Manufactured and packaged in a class 10,000 cleanroom; pestles and tubes are certified DNase, RNase and Pyrogen-free, and made of animal and phthalate/phthalate-ester free polypropylene with lot control and material traceability



⚠ See page 25



CATALOG NO.	DESCRIPTION	QUANTITY/PACK
<b>Homogenizer— Includes Cordless Motor, 2 AA Batteries and Pestle Adapter</b>		
03-421-215	Cordless Homogenizer Unit	1
<b>Individually Packed (Pack of 100)</b>		
03-421-216	0.5ml Pestle	100
03-421-218	0.5ml Tube	100
03-421-220	0.5ml Pestle and Tube	100
03-421-217	1.5ml Pestle	100
03-421-219	1.5ml Tube	100
03-421-221	1.5ml Pestle and Tube	100
<b>Bulk Packed (Pack of 100)</b>		
03-421-222	0.5ml Pestle	100
03-421-226	0.5ml Pestle and Tube	100
03-421-223	1.5ml Pestle	100
03-421-225	1.5ml Tube	100
03-421-227	1.5ml Pestle and Tube	100



Product Video  
[bit.ly/37WWVuS](https://bit.ly/37WWVuS)



Get a free tube and pestle sample at [bit.ly/382LLox](https://bit.ly/382LLox)

## Disposable Polypropylene Pestles and 1.5ml Tubes

### Matched Shape for a Perfect Fit

- Autoclavable or disposable plastic pestles
- Excellent for re-suspending bacterial cells, precipitates of nucleic acids or proteins and pellets of other materials
- Available with 1.5ml microcentrifuge tubes of the same shape for optimal grinding



CATALOG NO.	DESCRIPTION	QUANTITY/PACK
13-712-15	100 Pestles and 100 1.5ml tubes	100
13-717-270	100 Pestles Only	100



## Stir and Add Cuvette Mixers

### Provides Complete Mixing



- Mix added reagents directly in cuvettes
- Up and down motion in cell provides complete mixing
- Clear acrylic with a straight handle



14-511-20 – Mixer Dimensions: 9.1 x 9.1mm (0.36" x 0.36")

14-511-21 – Mixer Dimensions: 9.1 x 3.6mm (0.36" x 0.14")

⚠ See page 25

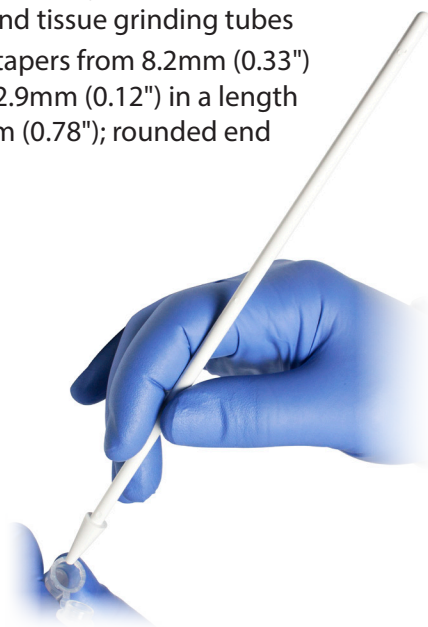


CATALOG NO.	DESCRIPTION	SHAFT LENGTH	QUANTITY/PACK
14-511-20	For 10mm light path cells	11.4cm (4.5")	3
14-511-21	For semi-micro cells	13.0cm (5.1")	3

## Extended Handle Pestle

### Autoclavable

- Efficiently homogenizes tissue and cells in conical bottom and tissue grinding tubes
- Cone tip tapers from 8.2mm (0.33") down to 2.9mm (0.12") in a length of 19.8mm (0.78"); rounded end



CATALOG NO.	OVERALL LENGTH	QUANTITY/PACK
14-100-182	21cm (8¼")	6

## Liquid Nitrogen Cooled Mortar

### Safely Contained Liquid Nitrogen

- Stainless steel bowl inside insulated polyethylene housing keeps liquid nitrogen cold longer
- Includes 304 stainless steel mortar
- Recommended size pestle is any size appropriate for a 275ml mortar (not included)



⚠ See page 25




CATALOG NO.	DESCRIPTION	QUANTITY/PACK
12-947-1	Stainless Steel Ladle (bowl and detachable handle) and Stainless Steel Reservoir in a polyethylene housing	1
12-947-2	Stainless Steel Mortar (Bowl only, no handle)	1

## Liquid Nitrogen Cooled Mini Mortar and Pestle Set

### Protect Sample Quality by Homogenizing in a Microcentrifuge Tube

- Permits grinding of smaller amounts of tissue directly in a 1.5ml microcentrifuge tube
- Reduces sample loss and collection time
- Prevents tube from cracking by eliminating direct contact with liquid nitrogen



 See page 25



CATALOG NO.	HOUSING OVERALL DIMENSIONS	QUANTITY/PACK
12-947-975	16.5 diam. x 11.4cmH (6½ x 4½")	1

## Three Zone Powder Sampler

### Extract Samples at 3 Levels from One Container

- For proper sampling of powders, pellets and other friable materials which may become non-homogeneous in bags
- Acquires samples from three positions
- Anodized aluminum with sharp stainless steel point



CATALOG NO.	LENGTH	QUANTITY/PACK
22-261789	56cm (22")	1

## Needlepoint Sampler

### Minimize Damage When Taking Samples from Bags

- Pulls out with sample ready to be poured out of the hollow handle
- Enters a maximum of 28cm (11") deep



⚠ See page 25

CATALOG NO.	DIAMETER	LENGTH	QUANTITY/PACK
14-209-53	2.2cm (7/8")	41cm (16")	1

## Tapered Plug Sampler

### Punctures Packaging to Retrieve Samples

- Smooth, tapered, stainless sampler for extracting a "plug" of material from bags or blocks of cheese, grease, soap, clay, etc.
- Sharp end cuts through a bag or box
- Twisting the "T" handle one-half turn will cut out a plug of material 15.2cm (6") long tapering from 1.7cm (11/16") to 1.3cm (1/2")



CATALOG NO.	LENGTH	QUANTITY/PACK
14-209-50	19.1cm (7 1/2")	1

## Mini-Sieve Micro Sieve Set

### For Handheld Use in Lab or Field

- Stack of four interchangeable, polypropylene screen holding sections, a catch pan, a cover and four screen retaining rings
- Sections are friction-fit; easy to assemble and take apart for sample retrieval
- Sorting parameters can be changed by exchanging the removable phosphor-bronze mesh inserts



⚠ See page 25

CATALOG NO.	DESCRIPTION	QUANTITY/CASE
03-410-531	Mini-Sieve™ Micro Sieve Set	1
14-306B	Additional Mesh Inserts	1



# Sample Handling - Micro-Mill® Grinders

## Micro-Mill® Grinders

### With Interchangeable Grinding Chambers

- Industry standard for grinding small samples from 20 to 50ml
- Temperature is maintained by means of built-in heat exchangers
- Cast aluminum body for long life



⚠ See page 25



CATALOG NO.	DESCRIPTION	QUANTITY/PACK
<b>MICRO-MILL® GRINDER with stainless steel blade and grinding chamber, and momentary hold-down switch. Operates only when switch is held down.</b>		
22-395517	115VAC, 60 Hz	1
<b>MICRO-MILL® GRINDER with stainless steel blade and grinding chamber. 0-5 minute timer with "ON" position for continuous operation.</b>		
08-335	115VAC, 60 Hz w/ electrical timer	1
<b>MICRO-MILL® GRINDER with hard, stellite faced blade and grinding chamber, with timer.</b>		
08-336	115VAC, 60 Hz	1
<b>Micro-Mill Grinder® Hard-Faced Blade - For 08336. Stellite-faced blades for grinding samples up to hardness of stellite 6.</b>		
08-335-4	Hard-Faced Accessory Blade	1

## Micro-Mill® II Grinder

- Rapid, high speed milling of small samples from 20 to 50ml
- Additional grinding chambers available for processing multiple samples without cross contamination
- Economical polycarbonate construction; easy sample removal



⚠ See page 25



CATALOG NO.	DESCRIPTION	QUANTITY/PACK
03-421-125	Micro-Mill® II Grinder, 115VAC, 60Hz	1
03-423-20	Micro-Mill® II Accessory Grinding Chamber	1
08-335-4	Hard-Faced Accessory Blade	1

# Scrapers

## Choice of Handle Length

- Smooth, chemical-resistant plastic
- Useful for removing residues from filters, cleaning containers, mixing and distributing solids in fluids, spreading pastes over large areas, and more
- Available in white, FDA grade LDPE or red HDPE



CATALOG NO.	DESCRIPTION	COLOR	QUANTITY/PACK
<b>HARD HIGH-DENSITY POLYETHYLENE</b>			
14-100-185	Scraper with 25cm (10") handle	Red	1
14-100-186	Scraper with 91cm (36") handle	Red	1
22-261596	Scraper with 183cm (72") handle	Red	1
<b>SOFTER LOW-DENSITY POLYETHYLENE (MAX TEMP IS 80°C)</b>			
14-100-187	Scraper with 25cm (10") handle	White	1
03-990-247	Scraper with 91cm (36") handle	White	1
14-100-188	Scraper with 183cm (72") handle	White	1

## Smooth, Chisel-Type Rigid Scraper

- Flat polystyrene blade with a tapered sharp edge
- Made of FDA grade materials for direct contact with foods, drugs, and cosmetics
- Side edges are rounded



CATALOG NO.	LENGTH	QUANTITY/PACK
11-391-300	23.2cm (9¼")	1

## Triangular Scraper

### No Metal, No Scratching, No Bending

- Rigid, chisel-edged with tapered triangular blade
- Complies with FDA requirements for direct contact with foods, drugs, and cosmetics
- Autoclavable



CATALOG NO.	LENGTH	QUANTITY/PACK
14-100-183	24.8cm (9¾")	1

## Long Handled Scraper

### Will Not Scratch Glass

- Rigid nylon; only slight flexibility
- Grooved fiberglass handle provides secure grip



CATALOG NO.	OVERALL LENGTH	QUANTITY/PACK
14-100-184	152cm (60")	1

## Resharpenable Rigid Scraper

### Blade May Be Resharpended to Restore Edge

- Glass-reinforced polyimide nylon
- Straight, chisel-type edge
- FDA grade materials are suitable for direct contact with foods, drugs, and cosmetics



CATALOG NO.	LENGTH	QUANTITY/PACK
22-261589	28.5cm (11¼")	1

# Sample Handling - Liquid Samplers

## Ladles

### Safely Sample and Dispense Corrosive Liquids

- High-density polyethylene
- Rigid bowl with welded handle



CATALOG NO.	CAPACITY	HANDLE	QUANTITY/PACK
22-261565	50ml (1¾ oz)	23cm (9")	1
14-100-189	250ml (8½ oz)	23cm (9")	1

## Sample Thief

### Take Liquid Samples at Desired Depths

- Hand controlled; take liquid samples at specific depths
- Tapered ends with 4.7mm ( $\frac{3}{16}$ " ) diameter openings
- Maximum capacity: approximately 475ml



CATALOG NO.	LENGTH	DIAMETER	QUANTITY/PACK
22-163832	105cm (41½")	29mm (1¼")	1

## Churn Sample Splitters

### Mix and Divide a Water Sample into Subsamples for Testing

- Provides efficient method of preparing subsamples of collected water-sediment mixtures from stream flows for water quality analysis
- Intended to meet USGS water sampling protocol
- Spring-loaded spigot drains subsamples into bottles

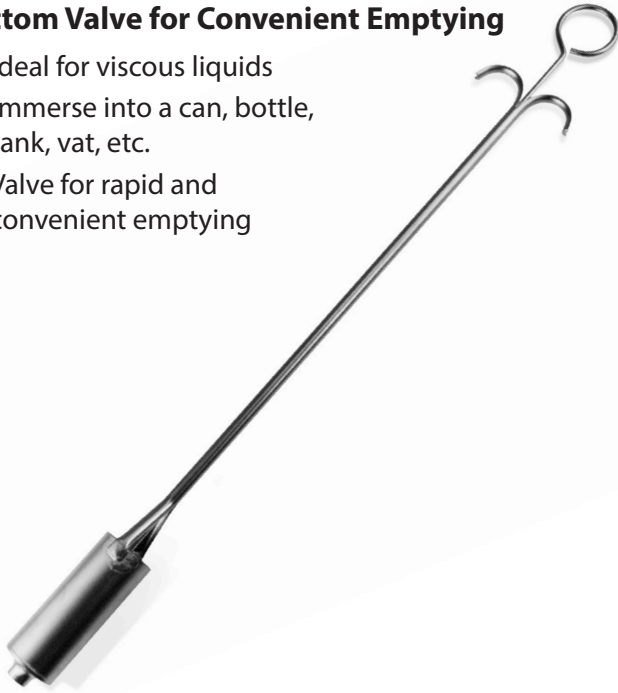


CATALOG NO.	SIZE	QUANTITY/PACK
03-421-146	4 liter (1 gal)	1
03-338-12B	8 liter (2 gal)	1
03-338-12C	14 liter (3.7 gal)	1

## Liquid Sampler

### Bottom Valve for Convenient Emptying

- Ideal for viscous liquids
- Immerse into a can, bottle, tank, vat, etc.
- Valve for rapid and convenient emptying



⚠ See page 25

CATALOG NO.	LENGTH	QUANTITY/PACK
14-209-52	50cm (19½")	1

## Bellows Samplers

### Easy One-Hand Operation

- FDA grade polyethylene sampler tube
- Long tapered tip with a 4mm opening



PE

CATALOG NO.	CAPACITY	LENGTH	QUANTITY/PACK
03-421-147	20ml	39cm (15½")	5
22-261785	50ml	50cm (19½")	5

## Safety Acid/Caustic Samplers

### Retrieve Samples from Large Volume Tanks



- Excellent for sampling from tank cars, tank trucks and barges
- Well suited for sodium hydroxide, potassium hydroxide, hydrochloric acid, acetic acid, formaldehyde, sulfuric acid, etc.
- 500cc (16oz) replacement bottles: catalog no. F10621-0007



PE

CATALOG NO.	HANDLE LENGTH	OVERALL LENGTH	QUANTITY/PACK
14-241-16A	91cm (36")	118cm (46.5")	1
03-421-145	244cm (96")	267cm (105")	1

## Sampler Syringe

### Invert Syringe to Store Sample in Bulb

- Sample liquids quickly and easily - squeeze, submerge, release
- Manufactured with FDA grade materials
- Syringe can be unscrewed from bulb for easy cleaning and storage



⚠ See page 25

PP

CATALOG NO.	LENGTH	QUANTITY/PACK
14-209-49	30cm (11¾")	1

# Sample Handling - Dippers

## Long-Handled Dippers

### Available in Choice of Handle Lengths



- Rigid handle for easy sampling from tanks, vats, lakes, etc.
- HDPE; will not rust or corrode, excellent chemical resistance
- 12 foot handle available in one piece or two-piece screw-together construction



CATALOG NO.	BOWL SIZE	HANDLE LENGTH	QUANTITY/PACK
<b>1 Piece Handle</b>			
22-111153	500ml (16oz)	0.91m (3ft)	1
22-111526	500ml (16oz)	1.8m (6ft)	1
22-261570	1000ml (32oz)	1.8m (6ft)	1
22-261572	500ml (16oz)	3.7m (12ft)	1
14-100-190	1000ml (32oz)	3.7m (12ft)	1
<b>2 Piece Handle</b>			
22-163790	500ml (16oz)	3.7m (12ft)	1
22-261571	1000ml (32oz)	3.7m (12ft)	1



## Adjustable Handle Water Sample Dipper

### Handle Adjusts for up to 274cm (9 Ft) Extended Reach

- Long reach for taking samples of water, sewage, wastes and effluents from lakes, streams, tanks, or ponds
- 1000ml graduated polypropylene sample container
- Telescoping aluminum handle with spring button adjustment; 91cm (3') to 274cm (9')



CATALOG NO.	QUANTITY/PACK
22-163857	1



# Economy Dippers

## Replaceable Cups for Sampling



- Lightweight, easy to use and portable
- Exchangeable cup reduces cross contamination
- PP cup with two pouring spouts allow left or right pouring



HDPE PP

CATALOG NO.	LENGTH	QUANTITY/PACK
03-410-809	Dipper with 91cm (3ft) handle	1
03-410-810	Dipper with 183cm (6ft) handle	1
03-410-811	Extra screw-on cups 500ml (16oz)	1

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