

Environmental

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BOD Bottles

- Ideal for incubating diluted samples of sewage, sewage effluents, polluted waters and industrial wastes to determine the amount of oxygen required during the stabilization of the decomposable organic matter by aerobic biochemical action
- We recommend the 300mL capacity bottles for the five-day BOD test as referenced in Standard Methods for the Examination of Water and Wastewater, 21st Edition, 5210B, 2005
- Specially designed bottle shoulder radius that sweeps all air from inside the bottle during filling
- The interchangeable stoppers have a tapered bottom that prevents air entrapment
- The bottles have a flared mouth to form a water seal around the stopper that prevents air from being drawn into the bottle during incubation
- Stopper joint is compatible with the probes of the leading meters for BOD and dissolved oxygen
- Large, permanently screened-on writing patch on all bottles
- Manufactured from USP Type I borosilicate glass



Cat. No.	Cap (mL)	Number Sequence	Barcoding	Dia. x H (mm)	Stopper	Qty / Case
227494-00G	60mL	Un-numbered	No	43 x 115	Glass Pennyhead	36
227494-00	60mL	Un-numbered	No	43 x 115	Glass Robotic	36
227494-01G	60mL	01-36	No	43 x 115	Glass Pennyhead	36
227494-01	60mL	01-36	No	43 x 115	Glass Robotic	36
227494-02G	60mL	37-72	No	43 x 115	Glass Pennyhead	36
227494-02	60mL	37-72	No	43 x 115	Glass Robotic	36
227494-03G	60mL	73-108	No	43 x 115	Glass Pennyhead	36
227494-03	60mL	73-108	No	43 x 115	Glass Robotic	36
227494-99G*	60mL	Specials	No	43 x 115	Glass Pennyhead	36
227494-99*	60mL	Specials	No	43 x 115	Glass Robotic	36
227498	300mL	Un-numbered	No	69 x 143	Without Stopper	24
227497-00G	300mL	Un-numbered	No	69 x 165	Glass Pennyhead	24
227497-00	300mL	Un-numbered	No	69 x 165	Glass Robotic	24
227497-01G	300mL	01-24	Yes	69 x 165	Glass Pennyhead	24
227497-01	300mL	01-24	Yes	69 x 165	Glass Robotic	24
227497-02G	300mL	25-48	Yes	69 x 165	Glass Pennyhead	24
227497-02	300mL	25-48	Yes	69 x 165	Glass Robotic	24
227497-03G	300mL	49-72	Yes	69 x 165	Glass Pennyhead	24
227497-03	300mL	49-72	Yes	69 x 165	Glass Robotic	24
227497-04G	300mL	73-96	Yes	69 x 165	Glass Pennyhead	24
227497-04	300mL	73-96	Yes	69 x 165	Glass Robotic	24
227497-05G	300mL	97-120	Yes	69 x 165	Glass Pennyhead	24
227497-05	300mL	97-120	Yes	69 x 165	Glass Robotic	24
227497-06G	300mL	121-144	Yes	69 x 165	Glass Pennyhead	24
227497-06	300mL	121-144	Yes	69 x 165	Glass Robotic	24
227497-07G	300mL	145-168	Yes	69 x 165	Glass Pennyhead	24
227497-07	300mL	145-168	Yes	69 x 165	Glass Robotic	24
227497-08G	300mL	169-192	Yes	69 x 165	Glass Pennyhead	24
227497-08	300mL	169-192	Yes	69 x 165	Glass Robotic	24
227497-09G	300mL	193-216	Yes	69 x 165	Glass Pennyhead	24
227497-09	300mL	193-216	Yes	69 x 165	Glass Robotic	24
227497-10G	300mL	217-240	Yes	69 x 165	Glass Pennyhead	24
227497-10	300mL	217-240	Yes	69 x 165	Glass Robotic	24
227497-11G	300mL	241-264	Yes	69 x 165	Glass Pennyhead	24
227497-11	300mL	241-264	Yes	69 x 165	Glass Robotic	24
227497-12G	300mL	265-228	Yes	69 x 165	Glass Pennyhead	24
227497-12	300mL	265-228	Yes	69 x 165	Glass Robotic	24
227497-13G	300mL	289-312	Yes	69 x 165	Glass Pennyhead	24
227497-13	300mL	289-312	Yes	69 x 165	Glass Robotic	24
227497-14G	300mL	313-336	Yes	69 x 165	Glass Pennyhead	24
227497-14	300mL	313-336	Yes	69 x 165	Glass Robotic	24
227497-15G	300mL	337-360	Yes	69 x 165	Glass Pennyhead	24
227497-15	300mL	337-360	Yes	69 x 165	Glass Robotic	24
227497-16G	300mL	361-384	Yes	69 x 165	Glass Pennyhead	24
227497-16	300mL	361-384	Yes	69 x 165	Glass Robotic	24
227497-17G	300mL	385-408	Yes	69 x 165	Glass Pennyhead	24
227497-17	300mL	385-408	Yes	69 x 165	Glass Robotic	24
227497-18G	300mL	409-432	Yes	69 x 165	Glass Pennyhead	24
227497-18	300mL	409-432	Yes	69 x 165	Glass Robotic	24

* For specials contact DWK Life Sciences Customer Service

Replacement Stoppers

- For 60mL and 300mL BOD Bottles



Cat. No.	Description	Qty / Case
227670	Robotic Stopper, Glass	12
227672	Pennyhead Stopper, Glass	12

BOD Bottle, Black, 300mL

- Ideal for light sensitive samples
- Coated with black PVC plastic to block all visible light up to 800nm to inhibit the production of oxygen by algae
- Recommended for use in marine photosynthesis projects when comparing oxygen in a light and a dark bottle
- Supplied with a glass robotic stopper and an opaque black cap
- Manufactured from USP Type I borosilicate glass



Cat. No.	Dia. x H (mm)	Qty / Case
227667	73 x 167	20

*For replacement stoppers use Cat. No. 227670

BOD Bottle, 2L

- Recommended for long-term BOD and ultimate BOD analysis
- Manufactured from WHEATON 33 low extractable borosilicate glass that conforms to USP Type I and also ASTM E 438 Type I Class A requirements and comes complete with a glass robotic stopper



Cat. No.	Dia. x H (mm)	Qty / Case
227580	128 x 272	1

*For replacement stoppers use Cat. No. 227670

BOD Bottle Aerator

- 40-60µm porosity glass frit
- For use with 300mL bottle
- EPA Method 245.1 Manual Cold Vapor Technique
- Used in determining inorganic forms of mercury and organic mercurials in drinking, surface and saline waters, as well as domestic and industrial waste
- Manufactured from WHEATON 200 low extractable borosilicate glass that conforms to USP Type I and also ASTM E 438 Type I, Class A requirements



Cat. No.	Description	Qty / Case
227700	BOD Aerator	1

BOD Bottle Cap

- Polyethylene cap prevents evaporation of the water seal during the five-day BOD incubation period
- Includes foam insert to exert pressure on the bottle stopper to hold it securely



Cat. No.	Description	Qty / Case
227723	BOD Bottle Cap	50

BOD Bottle Rack

- Conveniently and safely transports BOD bottles
- Racks are stackable
- Not autoclavable



Cat. No.	For Bottle Size	Holds	L x W x H (in)*	Max Bottle Dia.	Qty / Case
W227729	60mL	20 Bottles	13 x 10 x 7 in	49mm	1
W227731	300mL	12 Bottles	13 x 10 x 7 in	76mm	1

*33.03 x 25.4 x 17.78cm

BOD Stopper Leash

- Rubber leash prevents loss of stoppers
- Leash has 10mm diameter holes at each end to expand to fit securely around both the stoppers and the bottle necks



Cat. No.	Description	Qty / Case
776580	Stopper Leash	25

Bomb Sampler

- Ideal for sub-surface liquid sampling
- 500mL capacity
- These units are constructed of corrosion resistant Type 304 stainless steel
- A weighted plunger with a FKM "O" ring seals the reservoir chamber at the bottom
- Use a cable to lower sampler to desired depth
- Pull second cable to operate the sampling valve and release to reseal the chamber
- Cables not included
- Recommended for use with a cable that can support 50 pounds or more and is made from stainless or PTFE coated stainless steel



Cat. No.	Capacity (mL)	Dia x Length	Qty / Case
885200	500	2.75 x 10" (7 x 25.4cm)	1

Drum Thieves

- Drum thieves are ideal for quick and easy sample retrieval
- To use, simply insert one end of the drum thief into a drum and hold a finger over the opening on the other end to trap liquid in the tube
- Carefully remove the drum thief and empty the contents into a testing container
- Disposable
- Open ended
- These soda-lime glass units are 43" long and can be easily broken for quick disposal



Cat. No.	Approx. Capacity (mL)	Dia (mm)	Qty / Case
885300	25	7.5	100
885302	75	12	24
885303	150	18	24

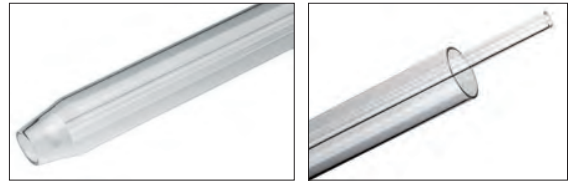
Coliwasa, Reusable



- Uniquely designed top spin bar and bottom valve plate mechanism provides a positive seal for sample retention along with greater control for releasing the sample
- Manufactured from clear PVC
- Sampling can be achieved up to 20'
- Modular design adds flexibility by enabling the connection of several sections to form a longer sampling unit up to 20' (610cm)
- Provided with a 48" long cleaning brush
- Dimensions (ID x OD): 1 3/8" x 1 5/8" (3.5 x 4.12cm)

Cat. No.	Description	Approx. Volume (mL)	Qty / Case
Coliwasa Unit			
885250	4' (122cm) Coliwasa Unit	760	1
885252	6' (183cm) Coliwasa Unit	1100	1
Extension and Connector			
885253	4' (122cm) Extension and Connector	760	1
Replacement Parts			
885258	Bottom Plate and SS Nut	—	1

Coliwasa Sampler, Glass



- Used to collect composite liquid samples from top to bottom in drums, tanks and reservoirs
- Easy to use
- Disposable or reusable units available
- Liquid-tight PTFE seal eliminates sample leakage
- PTFE seal design permits sampling to within 1/2" of drum bottom
- After a sample has been collected, lower and press lightly on the inner tube, which positively seats the PTFE seal, locking the sample column into place
- Unit has a tapered bottom with an approximate diameter opening of 1/2", (1.3cm) and a sample capacity of 200mL
- Prescored samplers make disposal easier
- Dimensions: Diameter 7/8" x Length 42", (2.25cm x 106.5cm)

Cat. No.	Description	Material	Qty / Case
Disposable Unit			
885220	Pre-scored	Soda-Lime Glass	12
Reusable Unit			
885230	Unscored	Borosilicate Glass	12
885231	Pre-scored	Borosilicate Glass	12
Replacement Seals			
885232	Replacement Seals	PTFE	10

Coliwasa, Trumpet



- Use for sampling sludge or semi-solid material
- Disposable soda-lime glass
- Rigidity of the glass makes it suitable for boring through semi-solid sludge-type materials
- Tight PTFE seal keeps in liquid and sludge material
- Outer tube is 40" (101.6cm) long

Cat. No.	Description	Qty / Case
885235	200mL Capacity	1

E-Z Sampler®

- Ideal for sampling unknowns from open-top drums and tanks
- Manufactured from chemically resistant polypropylene
- The E-Z Sampler® has a 39" (100cm) head/shaft assembly and is supplied with a 125mL borosilicate glass bottle with a PTFE lined cap
- Filling ports are located above the bottle to ensure that it is completely filled to reduce the possibility of air entrapment
- Bottle has a 33-430 screw thread finish



Cat. No.	Description	Qty / Case
885020	Complete Unit with Bottle	1
885025	125mL Bottle, with Cap	12
240480	Replacement Cap	100

Sub Surface Grab Sampler® I

- Ideal for sampling from spillways, docks and other sub surfaces
- No need to physically enter the sample area
- Eliminates surface contamination
- Helps meet EPA requirements for water and wastewater sampling
- Lightweight construction
- Constructed of 72" x 3/4" (183 x 2cm) square aluminum tubing with a golden anodine finish
- Provided with a 1000mL narrow-mouth borosilicate glass sample bottle with a PTFE-lined cap and clamps for large and small bottles



Cat. No.	Description	Qty / Case
990250	Sub Surface Grab Sampler® I	1
990477	Replacement Sample Bottle, 1000mL, 38-430	1
240481	Black Phenolic Replacement Cap	100

Sub Surface Grab Sampler® II

- Excellent for accessing fluid flow in deep manholes and hard to reach sub-surface sampling areas
- Helps meet EPA requirements for water and waste water sampling
- Available in lengths up to 18' (5.5m)
- Each sampler consists of an inert polypropylene head with stainless steel fittings and an aluminum pole assembly with a golden alodine finish
- Provided with a 1000mL narrow-mouth borosilicate glass sample bottle with a PTFE-lined cap
- To use it, screw a sample bottle into the head and lower to the desired depth
- Pull the cable at the top of the handle which will lift a spring-loaded plunger from the bottle opening, allowing liquid to enter through four 5/8" diameter holes
- Release the cable when the bottle is full to reset the plunger



Cat. No.	Description	Qty / Case
990350	6' (183cm) Sub Surface Grab Sampler® II	1
990400	12' (366cm) Sub Surface Grab Sampler® II	1
990450	18' (549cm) Sub Surface Grab Sampler® II	1
990477	Replacement Sample Bottle	1
240481	Black Phenolic Replacement Cap	100

Sample Bottle, Narrow Mouth

- For use with Sub Surface Grab Sampler® I & II
- 1000mL narrow mouth borosilicate glass bottle
- 38-430 screw cap with PTFE liner
- Autoclavable
- The bottle has a hand grip for easy handling



Cat. No.	Description	Qty / Case
990477	1000mL Bottle with Cap	1

Sample Bottle, Wide Mouth

- For use with Sub Surface Grab Sampler® III
- 1000mL wide mouth borosilicate glass bottle
- 70-400 screw cap with PTFE liner
- Autoclavable
- These wide mouth sample bottles can be repeatedly autoclaved and come with PTFE-lined caps



Cat. No.	Description	Qty / Case
990476	1000mL Bottle with Cap	1

WHEATON® Chemistry Glassware

The WHEATON portfolio offers a vast selection of analytical apparatus used in the examination of environmental samples including Arsine Generators, Cyanide Distillation Kits, Kuderna-Danish Concentrators and Soxhlet Extraction Apparatus. WHEATON glassware is designed with convenience in mind with features such as Clear-Seal™ joints and the WHEATON Connection® screw thread finish ends.

- > Manufactured from WHEATON 33 low extractable borosilicate glass that conforms to USP Type I and ASTM E 438 Type I, Class A requirements
- > Meet ASTM / USP and EPA specifications
- > Clear-Seal™ Joints seal without grease, reducing the possibility of seizing
- > The WHEATON Connection® safely joins two exterior-threaded glass components without hooks, springs or clamps



See more information on Chemistry Glassware on page 70.

Weighing Dishes

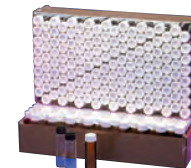
- Made from aluminum
- Ideal for milligram weighing
- Use with liquids or solids
- Smooth surface ensures complete transfer
- Use of balance-type forceps enables easy grasping



Cat. No.	Dia. x H (mm)	Qty / Case
370790	11 x 6	1000
370792	20 x 8	1000

EPA Vial, 40mL

- Ideal for use in water sampling according to EPA 40 CFR 136, "Guidelines for Establishing Test Procedures for the Analysis of Pollutants"
- Clear vials manufactured from WHEATON 33 low extractable borosilicate glass that conforms to USP Type I and ASTM E438 Type I, Class A requirements
- Amber vials manufactured from WHEATON 320 amber glass that conforms to USP Type I requirements for light transmission to protect light-sensitive products
- Caps attached to vials
- Vials packaged in convenient trays for ease of use



Cat. No.	Size (mL)	Size (dr)	*Dia. x H (mm)	Cap Size	Qty / Case
Clear Vial with Open Top Black Phenolic PTFE Faced Silicone Lined Cap					
225310	40	10	28 x 98	24-400	72
Amber Vial with Open Top White Polypropylene PTFE Faced Silicone Lined Cap					
225315	40	10	28 x 98	24-400	72

*Measurement taken with cap attached.

Replacement 24-400 Screw Caps & Septa

Cat. No.	Description	Qty / Case
W240518	Black Phenolic Open Top Screw Cap w/o Septa	200
W224600	White Glass-Filled Open Top Polypropylene Cap with Bonded 5 mils PTFE / 120 mils Silicone Septa	200

Vials for Environmental Analysis



Cat. No.	Size (mL)	Size (dr)	Dia. x H (mm)*	Cap Size	Qty / Case
Clear Vial with Open Top White Polypropylene PTFE Faced Silicone Lined Cap (Septa of 5 mils of PTFE facing 120 mils of silicone is bonded to cap.)					
W224609	20	5	28 x 60	24-400	72
W224610	25	6.25	28 x 73	24-400	72

Amber Vial with Open Top White Polypropylene PTFE Faced Silicone Lined Cap (Septa of 5 mils of PTFE facing 120 mils of silicone is bonded to cap.)					
W224612	20	5	28 x 60	24-400	72
W224614	40	10	28 x 98	24-400	72

*Cap on

Imhoff Cone, Plastic

- Designed for volumetric determination of settleable solids
- Cone is externally graduated from the plug up to 1000mL
- Imhoff Cone is manufactured from an acrylic copolymer and includes a rubber plug and polypropylene cap
- Remove the leak-resistant screw cap and plug to clean
- Reference: Standard Methods for the Examination of Water and Wastewater, 21st Edition (2005), Method 2540 F
- 3 and 4-place Imhoff Cone Racks are sold separately and are constructed of epoxy-coated, heavy-gauge steel to provide long life



Cat. No.	Description	Size (mL)	Top Dia x Length (mm)	Qty / Case
W990800	Imhoff Cone	1000	108 x 451	4

Imhoff Cone Racks

990760	3-Place Rack	—	—	1
990760-4	4-Place Rack	—	—	1

Drum Opener

- Can be used with hazardous materials
- Cast from lightweight, durable aluminum alloy and features a quarter-turn opening action
- Opens all 3/4" and 3" closures



Cat. No.	Qty / Case
885295	1

Scoop, Stainless Steel

- Manufactured from 18/8 stainless steel
- Ideal for sampling powders, slurries, soils, etc.
- Dimensions: Overall length is 9-1/2" (24cm); the bowl's dimensions are 5 1/2" x 3" x 1 1/8" (14 x 7.6 x 2.9cm) 4oz



Cat. No.	Qty / Case
885540	4

Oil Sample Bottle, Clear

- Clear, Type III soda-lime glass
- Bottles come with cork inserted



Cat. No.	Capacity (oz)	Capacity (mL)*	Dia. x H (mm)	Qty / Case
W216994	4	125	37 x 163	144

*Approximate capacity

