WHEATON®
PETG / PC Bottles & Shake Flasks

Customizable Packaging Solutions

www.wheaton.com
PETG
Eastar™ Copolyester PETG by Eastman Tritan™
Eastar is the “Resin of Choice” for single use containers and medical devices. Thus, we chose PETG from Eastman Tritan for the production of our media bottles. Our PETG products retain their clarity after gamma sterilization, maintain integrity of the contents and are guaranteed to exceed customer’s requirements and expectations.

WHEATON PETG Resin meets ISO 10993 and / or USP Class VI biocompatibility requirements and is Food Contact Status Compliant. The PETG is an amorphous material that displays performance properties including clarity and toughness as well as excellent gas barrier and chemical inertness. The products can be safely sterilized with gamma irradiation without property loss or color shift.

Polycarbonate (PC)
Lexan® Polycarbonate by Sabic
Lexan Polycarbonate resin is an amorphous engineering thermoplastic, characterized by outstanding mechanical, optical, electrical and thermal properties. The Lexan resins utilized by WHEATON environmentally confirm to flame retardant standards, are scratch resistance, with a toughness and heat resistance that ensures biocompatible and optical quality. WHEATON products made with the Lexan polycarbonate resin are compliant with stringent FDA and USP requirements.

Based on these properties and their inert nature, the media bottles and shaker flasks are ideal packaging vessels. All products are manufactured in a class 10K clean room.

The polycarbonate products are supplied gamma irradiated sterilized (SAL >10^-6) or as aseptically clean and non-sterile. All products (sterile or non-sterile) are packaged and produced in a clean room controlled environment and do not need to be rinsed prior to first use. Consequently, all WHEATON Lexan polycarbonate (PC) containers are a safer alternative to glass. WHEATON polycarbonate bottles and flasks are ideal for steam sterilization of all biologicals, liquids, reagents, media, buffers and aqueous solutions. WHEATON media bottles and flasks withstand repeated autoclaving and are optimal for all microbial culture media production and the preparation of terminally sterile fluids.

All WHEATON PETG and Polycarbonate Bottles are available with a standard cap solution (PETG - Tamper Evident; Polycarbonate - Standard) or available with your choice of cap, separately packaged.

Anatomy of a WHEATON Media Bottle

**Threads**
WHEATON Media Bottles have continuous and straight-shouldered semi-buttress threads designed to perfectly interlock bottle and cap to securely protect the integrity of liquid within the container.

**Graduation Markings**
WHEATON Media Bottles have molded-in graduation markings for approximate volumetric measurement reference. Screen printed graduations are available on selected products.

**Ergonomic Uniformity**
WHEATON Media Bottles are molded with a uniform wall thickness offering a beveled edge ergonomic design that offers durability, strength and improved handling ability. The soft corners of the bottle make it comfortable to hold and occupy a minimum amount of shelf space.

**Secure Closure System**
WHEATON Media Bottles have a leak resistant, liner-free cap composed of virgin polypropylene (PP), animal component-free resin. The molded in angular seal ring within the cap allows the formation of a leak resistant contact with the bottle neck.

**Stable Base**
WHEATON Media Bottles are designed to have uniform resin and weight distribution, which is the key to maintaining a bottle stable during filling processes. The symmetrical base ensures steadiness in filling operations. Each bottle is marked with a resin identification code for user reference.

WHEATON Square Media Bottles are available molded of PETG or PC and available either certified sterile and non-pyrogenic or aseptically clean, non-sterile to eliminate the need for washing, depyrogenation and autoclaving. Available in sizes from 30 to 2000mL, the bottles are ideally suited for the preparation and containment of buffers and pH sensitive liquids, including active pharmaceutical ingredients and bulk intermediates.
Erlenmeyer Shake Flasks

WHEATON Erlenmeyer Flasks manufactured with virgin, optically clear, non-leaching LEXAN resin that retains clarity after gamma irradiation. The flasks are certified pyrogen-, DNase- and RNase-free and are packaged particulate free and wrapped in an easy tear, sterile bag. WHEATON Flasks are ideal for all suspension cell cultures, including baculovirus, microbial and algae cultures, as well as media preparation, storage and all related applications. WHEATON Flasks fit all standard shaking incubator systems and can be placed on any platform. In addition, WHEATON offers Shaker Flask Clamps for use with our flasks.

Sterile Erlenmeyer Flasks / Plain Base

<table>
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<th>W017775</th>
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<td>53B</td>
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*Baffled Base Erlenmeyer Flasks also available, please contact your WHEATON Representative for additional information.

Vented DuoCap®

WHEATON Erlenmeyer Flasks arrive standard with a patented vented DuoCap. The DuoCap allows both aerobic and anaerobic culture of microbes and algae without needing to replace the cap. Made of medical grade polypropylene, the PTFE 0.22µm membrane allows for sterile gas exchange.

Port Cap Kit

The WHEATON Port Cap Kit offers multiple ports to satisfy the needs of our customers. The WHEATON Port Cap Kit is fully autoclavable and contains either four or three ports that can be used simultaneously or separately. Port covers included.

Filter Adapter Cap

WHEATON has designed a polypropylene filter adapter to combine the filtration options of your preferred 38-430 bottleneck filters with our rugged container. This adapter provides a leakproof alternative that increases product utility and media containment. The filter adapter is autoclavable and is easy to store, use and reuse.

Shaker Clamps

WHEATON Polypropylene Shaker Flasks Clamps are carefully engineered to provide both clipping elasticity and motion resistance in one product. WHEATON Shaker Clamps feature a non-scratch design and are offered in a standard blue color, accompanied by stainless steel screws and washers. The Clamps fit all industry standard shaking incubators and are autoclavable for reuse.

Caps / Accessories

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<tr>
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<th>Filter Adapter</th>
<th>Vented DuoCap®</th>
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PETG / PC Bottles
Customizable Packaging Solutions

PETG
WHEATON PETG Resin meets ISO 10993 and/or USP Class VI biocompatibility requirements and is Food Contact Status Compliant. The PETG is an amorphous material that displays performance properties including clarity, toughness, excellent gas barrier and chemical inertness. The products can be safely sterilized with gamma radiation without property loss or color shift. WHEATON PETG Square / Octagonal Media Bottles are ideal for the storage of media, laboratory reagents and biological buffers. Graduation markings are molded in for reference filling. WHEATON PETG Square / Octagonal Bottles are provided gamma irradiated sterilized to SAL 10^-6 with blue caps attached. Each case is clean room packaged for sterile production with multi-barrier elastomer packaging. Available with standard cap or patented tamper-evident closure system.

PC
WHEATON PC Square / Octagonal Media Bottles and Boston Round Bottles are ideal for the storage of media, laboratory reagents and biological buffers. Manufactured in a Class 10K clean room in an ISO 9001 compliant facility with medical grade, virgin polycarbonate resin, these bottles are durable, chemically inert, non-leaching and optically superior. The WHEATON PC Media Bottles withstand repeated autoclaving and are optimal for all microbial culture media production and preparation of terminally sterile fluids. Bottles are provided aseptically clean, non-sterile with standard blue autoclavable caps attached in a multi-barrier elastomer packaging. Available with standard cap.

Media Bottles

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<tr>
<td>Units / Tray</td>
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Diagnostic Bottles

PETG
Sterile WHEATON Diagnostic Bottles are ideal for the safe storage, transfer and transport of diagnostic specimens, antibodies, proteins, nucleic acids, enzymes and substrates. WHEATON Diagnostic Bottles are suitable for air shipment and are tested during each manufacturing run to ensure leak proof performance. All WHEATON Diagnostic Bottles are non-cytotoxic and non-pyrogenic and meet with current biological and pharmaceutical regulatory standards, including USP Class VI, USP 661, and European Pharmacopeia for Abnormal Toxicity. WHEATON Diagnostic Bottles are manufactured from Animal Derived Component Free (ADCF) materials. WHEATON PETG Diagnostic Bottles are packaged with a blue tamper-evident polyethylene closure and are provided sterile to SAL 10^-6 in a multi-barrier clean room production package with caps attached.

PC
WHEATON PC Diagnostic Bottles are ideal for the sampling, storage, production and packaging of steam sterilized biologicals. They are ideal for leak resistant shipment of reagents and buffer solutions. Provided non-sterile with caps separately packed, WHEATON PC Diagnostic Bottles are shatterproof.

Diagnostic Bottles

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Wide Mouth Bottles

WHEATON Wide Mouth Bottles, made of polycarbonate, are engineered for both ultra-centrifugation and the culture of microbes, plants, algae and other organisms requiring large surface area to volume ratios. For ultra centrifugation processes, the bottles are designed to withstand maximum speeds without leakage and are ideal for all GS3 rotors. For use when relatively small amounts of solids involved, the tight-fitting polypropylene screw cap reduces the possibility of aerosol escape. Both bottles and caps are re-useable and re-sterilizable via autoclaving. The bottles are provided non-sterile with cap attached.

Wide Mouth / Centrifuge Flasks

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<td>144</td>
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Closure Systems

WHEATON Closures... The Perfect Match for PETG and PC Containers

WHEATON closures are made with medical grade, FDA approved polypropylene and high density polyethylene. All closures are autoclavable, reusable and recyclable. All caps are linerless with an integrally-molded seal ring to ensure a leak proof performance. WHEATON closures are manufactured in a Class 10K clean room environment and are supplied non-sterile as well as gamma radiation sterilized. The standard WHEATON cap color is blue.

Standard Cap
The WHEATON Standard Cap works with WHEATON PC Square and Round Media Bottles, PETG Square Media Bottles, PC and PETG Vials and PC Culture Tubes. WHEATON Standard Caps are autoclavable and can be repeatedly steam sterilized.

Tamper Evident Cap
The WHEATON Tamper Evident Cap is available for all WHEATON PETG and PC media bottles. The Tamper-evident ensures and serves as proof of content containment and is ideal for use with consumables.

Vented DuoCap®
The WHEATON Vented DuoCap accompanies both flat and baffled flasks of all sizes and also available for media bottles. Made of medical grade polypropylene with a PTFE 0.22µm membrane. Ideal for aerobic/anaerobic cell culture.

Septum Cap
The WHEATON Septum Cap can be used with both flasks and media bottles. The WHEATON Septum Cap is available in the WHEATON standard blue medical grade polypropylene with gray butyl rubber. This cap is ideal for injectables and inoculation of pathogen cultures.

Tamper Evident Septum Cap
Tamper Evident Septum Cap is identical to the Septum Cap with the addition of a tamper evident ring. It is available in the WHEATON standard blue medical grade polypropylene with gray butyl rubber.

Port Cap Kit
The WHEATON Port Cap Kit offers multiple ports to satisfy the needs of our customers. The WHEATON Port Cap Kit is fully autoclavable and contains either three or four ports that can be used simultaneously or separately. Port covers included.

Sterilizing and Cleaning

WHEATON Polycarbonate Bottles and Flasks

WHEATON Polycarbonate bottles and flasks are manufactured with virgin Lexan® Polycarbonate designed to withstand repeated steam sterilization. The following instructions are provided to assist in the proper cleaning and sterilization of the container.

For Filled Bottles or Flasks
Loosen the cap such that it is barely attached and sterile container according to standard lab protocol for use in a steam autoclave. A small piece of autoclave indicator tape should be used to secure the cap to the vessel and to indicate the vessel has been exposed to steam. Do not use a dry autoclave. Allow the vessels and content to cool to 55°C or lower before securing the cap. Tightening the caps on hot bottles or flasks will lead to a distortion of the bottle as the content cools. The recommended sterilization temperature is 121°C at 15 PSI for up to 60 minutes.

For Empty Containers
Remove the caps from the vessels and sterilize both in autoclave bags. As standard with glassware, cover the necks and tops of the bottles/flasks with aluminum foil. The foil should be crimped tightly to ensure that it does not fall off during autoclaving. A small piece of autoclave indicator tape should be used to secure the foil to the vessel and to indicate the vessel has been exposed to steam.

Caution
The bottles/flasks may “implode” due to rapid exhaust settings (sudden change in temperature and pressure). Therefore, for best results, use a slow exhaust cycle on the sterilizer.

Cleaning
To clean WHEATON polycarbonate bottles and flasks, use warm tap water and a solution of mild soap or household detergent. Rinse with distilled or deionized water and allow to air dry. Product should not be used in a drying oven. Do not over sterilize, as polycarbonate should not be sterilized at temperatures higher than 129°C or in a dry autoclave.
WHEATON Certified Clean PETG Containers
Clean You Can Trust

WHEATON PETG Bottles are specifically designed for clean room applications, including pharmaceutical and biotechnology applications. WHEATON PETG Bottles are ideal for the processing and storage of bulk intermediates and critical reagents, including vaccine and therapeutic protein preparations, from 70°C to -40°C. WHEATON PETG Bottles protect against breakage, leakage and radiation contamination while offering a glass-like transparency for ease of sample visibility. Compliant with USP Class VI, European Pharmacopeia for Abnormal Toxicity and USP 661, our PETG bottles are comprised of resins that are free of animal-derived components.

Benefits of WHEATON PETG Bottles:
- Available in a range from 5mL to 2L
- Excellent gas barrier properties, ensuring pH stability
- Sterile, tamper-resistant seal ensures product integrity prior to use
- Suitable for transport and storage
- Square or octagonal footprint for efficient use of storage space
- Leak resistant
- Comprised of resins that are free of animal-derived components
- Recommended temperature range +70°C to -40°C

WHEATON PC Containers & Flasks
An Alternative to Glass

WHEATON Polycarbonate Bottles are a safe alternative to glass. Ideal for steam sterilization of all biologicals, liquids, reagents, media, buffers and aqueous solutions. These bottles are durable, chemically inert, non-leaching and optically superior to other bottles on the market.

Benefits of WHEATON PC Bottles:
- Available in a range from 5mL to 2L
- Excellent gas barrier properties, ensuring pH stability
- Autoclavable for repeated usage
- Suitable for transport and storage
- Square or octagonal footprint for efficient use of storage space
- Leak resistant
- Recommended temperature range +40°C to -40°C

Benefits of WHEATON Erlenmeyer Flasks:
- Ideal replacement for glass and other Erlenmeyer / Shaker Flasks
- Patented DuoCAP allows sterile air exchange or leak resistant seal
- Minimize oxidation or pH shifts
- Perform aerobic/anaerobic culture
- Available with septum cap for pathogen containment
- Re-autoclavable, reusable
- Individually packed in easy tear bags
- Sterile to SAL 10^-6
- Available with a flat or baffled base
- Choose baffled base flasks when increased levels of oxygenation and mixing are required

Product Customization
WHEATON provides customers the option of personalizing their container orders by adding a company logo of their choice to the product cap. The selected logo is embedded onto the polypropylene caps and is resistant to autoclaving and scratching. The caps may also be customized to match a PMS color of choice. All caps retain the same properties after customization.*

Solutions
In addition to the customized offerings described above, which allow customers to maximize their brand exposure and ownership of product offerings, we also offer custom design expertise. WHEATON offers our customers the unique opportunity to create new products specific to their needs and desires. Please contact your WHEATON sales representative for additional information.*

*Minimum quantities required.

Packaging
Sterile: Individually Wrapped
WHEATON Erlenmeyer Flasks are individually packaged in easy-tear bags and pre-sterilized through gamma irradiation to ensure maximum sterility and tamper-proof evidence.

Sterile: Double Shrink-Wrap
WHEATON PETG Products are packaged with double-shrink wrap for clean room production. WHEATON PETG Products are available with standard and tamper-evident caps.

Non-Sterile: Shrink-Wrap Trays
WHEATON PC products are packaged in shrink-wrapped trays.

WHEATON®
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International .................................. 856.825.1100
Worldwide Fax ................................. 856.825.1368

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WBRO_039 09/2013
# Product Specifications

## Shake Flask and PETG / PC Bottle

### Torque Guide

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<th>Cap #</th>
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### Available Accessories

- PETG Square Bottles Family
- Polycarbonate Square Bottles Family
- Polycarbonate Round Bottles Family
- Polycarbonate Diagnostic Bottles Family

### Product # | Cap # | Closure Size | Max. Volume | Torque Range |
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### Technical Specifications

- **Material:** Polystyrene (PS), Polyethylene (PE), Polypropylene (PP), Poly(methyl methacrylate) (PMMA), Polycarbonate (PC), Polyethylene Terephthalate (PET), and Polyethylene Terephthalate Glycol (PETG)
- **Volume Range:** 100mL - 2000mL
- **Closure Types:** Standard Caps, Tamper Evident Polyethylene, Tamper Evident Polypropylene
- **Graduations:** ≤ 10 mL
- **Temperature Range:** −40°C to 130°C
- **Autoclavable:** Yes
- **Sterile Temp Range:** ≤ 150°C
- **Individually Wrapped:** Yes

### Accessory List

- **Cat. No.** | **Size** | **Diameter** (mm) | **Height** (mm) | **Gradient Markings** | **Volume Intervals** (mL) |
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<td>1000mL</td>
<td>1600mL</td>
<td>2000mL</td>
<td>No</td>
<td>≤ 10</td>
</tr>
</tbody>
</table>

### Further Information

- **Shake Flask and PETG / PC Bottle**
- **Torque Guide**
- **Product Specifications**
- **Available Accessories**