

 **WHEATON | Custom Glass**





## Wheaton Meets Your Requirements

Wheaton has been dedicated to providing custom solutions and services to customers for over 20 years. Wheaton is highly recognized for its process quality, its dependability, and flexibility in handling custom and overflow jobs. Wheaton has the expertise to create unique glass pieces according to your requirements, whether designed for aesthetics or functionality.

Wheaton's glass apparatus operation includes a full range of hand tooling, off-hand glass blowing, and glass lathe capabilities. Automatic lathes, capable of working with a wide range of glass tubing sizes, produce products to precision tolerances with a high degree of reproducibility. The operation also includes concentric and centerless grinding, polishing, thread forming and screen printing.

The Duran/Schott brand of glass, known for the highest quality in glass tubing and rod, is the primary glass used in Wheaton's custom work. Wheaton takes great pride in being able to provide top quality service, versatility, and dependability to customers.

Whether you are looking for a custom made vial, a unique glass piece or another process or service, we have a full team of Master Glassblowers that can handle almost any job.

On the next few pages, please review the processes and services Wheaton offers, but keep in mind that it is impossible to list all our capabilities. A good portion of our business is customized to customer specifications.

Give us a call if you have any questions. We will be glad to assist you. Our business hours are from 8:00 a.m. to 5:00 p.m. EST (Eastern Standard Time) in the USA. When calling, please ask for Wheaton Custom Glass.

800.225.1437 (U.S. & Canada) ■ 856.825.1100 (Worldwide)

# Fast Index

Custom Glass Processes	4-7
Custom Containers	9
Critical Cleaning & Sterilization	9
Surface Treatment	10
Bar Coding	10
Packaging	11
Vendor Managed Inventory	11

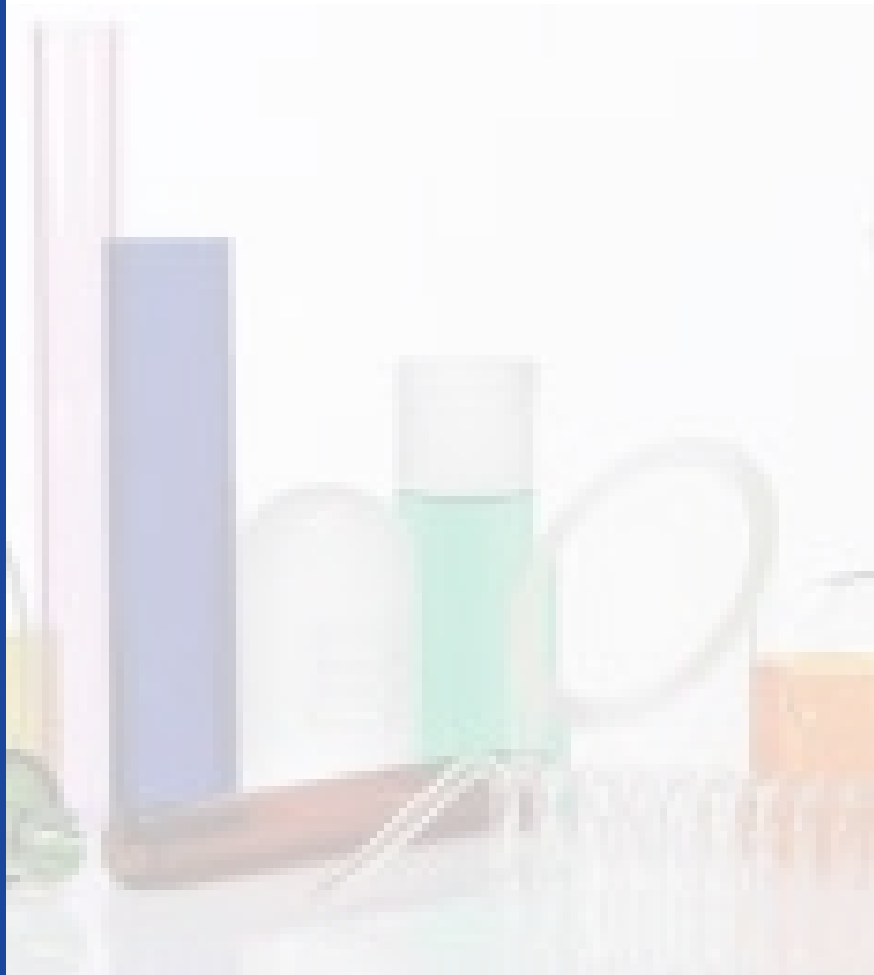


# Custom Glass Processes



## Processes

- Beveling
- Coating
- Conturax®
- Cutting
- Custom Cut Tubing and Rod
- Decaling and Screening
- Drilling
- Frosting
- Grinding
- Lathing
- Lamination
- Overflow
- Polishing
- Safety Coated Containers
- Sandblasting
- Screening and Decaling
- Silanization
- Step Grinding
- Tempering



### Beveling

Beveling creates angles on glass pieces that meet customer specifications. Wheaton has the ability to bevel both the inside and outside diameter of glass pieces to provide as uniquely a beveled edge as desired.

### Coatings

A variety of coatings are available including silverization and heat resistant coatings. A plastisol coating can also be applied to glass containers; which can darken a container for storing light sensitive materials. PVC-based plastisol coating on outside of bottle promotes safety by retaining contents if bottle is accidentally broken.

### Conturax®

Conturax glass tubing and rod produces increased surface to volume ratios compared with purely cylindrical shapes, and this combined with the corrosion resistance and smooth surface of the glass are significant features. These glass profiles have interesting optical properties, a feature which provides considerable scope for use in lighting, as pendants for light fittings, and in the design of distinctive interior decorations. Conturax is manufactured from borosilicate glass and available in diameters from 10-70 mm.

### Cutting

Wheaton cuts glass with the precision the industry requires. Pieces of glass can be cut to exact dimensions without the worry of excess or waste.

### Custom Cut Tubing and Rod

Wheaton works with and makes available to customers a wide range of glass tubing sizes. Custom products are produced with precision tolerance with a high degree of reproducibility.

### Decaling and Screening

Decaling and screening is the process of printing directly onto the glass. This allows company logos, content or measuring information to be placed on product.

### Drilling

Wheaton has the ability to cleanly drill holes into glass; which is often necessary when working with hanging glass pieces as well as in lighting applications.

### Frosting

Sandblasting creates a matte appearance on glass; which is often referred to as "frosted." This process gives glass the unique finish that may be required for specific applications.

### Grinding

The process of grinding creates flat surfaces that make it easy to join components together. This reduces the time and cost needed to achieve advanced processes at any facility.

## Custom Glass Processes



Coating



Conturax®



Conturax® Shapes



Cutting



Drilling and Frosting



Grinding



Lathing- Round Bottoming



Lathing- Flare In



Lathing- Flare Out



Polishing



Safety Coated Container



Screening/ Decaling



Step Grinding

## Custom Glass Processes

### Lathing

Lathe work is available for scientific, artistic, and architectural applications. Wheaton specializes in a variety of techniques including round-bottoming, flat-bottoming, flaring and custom apparatus work.

### Lamination

Lamination combines different sizes of tubing to achieve custom outside diameter / inside diameter combinations.

### Overflow

Wheaton has the capacity to handle customer's overflow work during peak demand.

### Polishing

Polishing creates a smooth finish which is ideal for components that have exposed edges. It can be an economic and efficient alternative to grinding.

### Safety Coated Containers

A PVC-based plastisol coating can be applied on the outside of a glass container; which can darken a container for storing light sensitive materials. A coated bottle promotes safety by retaining contents if bottle is accidentally broken.

### Sandblasting

Sandblasting creates a matte appearance on glass pieces which is often referred to as "frosted." This process gives glass the unique finish that may be required for specific applications.

### Screening and Decaling

Screening and decaling is the process of printing directly onto the glass. This allows company logos, content or measuring information to be placed on finished product.

### Silanization

Silanization is a process which creates a chemical reaction in the surface of the glass. This translates into a non-stick surface for liquids and powders; which reduces the amount of liquid left in a container and eliminates a meniscus when measuring exacting amounts.

### Step Grinding

Step Grinding is the process of grinding into the wall of a glass fitting without going through. It creates a small step in the lip of the fitting that can be used to produce a more efficient seal.

### Tempering

Tempering is a process that heats the glass for a specific amount of time to release certain atoms. This provides a stronger level of heat resistance than normal glass.



 **WHEATON** Science Packaging  
a division of **WHEATON** Industries Inc.

1501 North 10th Street, Millville, NJ 08332-2038  
800.225.1437 (U.S. & Canada) • 856.825.1100 • 856.825.9014 (F)  
[www.wheatonpkg.com](http://www.wheatonpkg.com)

