Creating a new world of packaging

Amcor Specialty Packaging
Glass Tubing Americas
We are a vertically-integrated supplier of glass tubing packaging solutions and services, with capabilities that range from glass vials and glass ampoules to glass tubes for conversion into vials and pre-filled syringes.

Amcor Specialty Packaging — Glass Tubing offers unmatched expertise serving the pharmaceutical, biotech, and animal health markets.

Ongoing capital investments, organizational improvements and new partnerships are leading to best-in-class quality systems that help you to reach your goals.

Our global presence ensures continuity of supply, provides flexibility, allows for development and sharing of best practices.

MEMBERS OF AN EXTENSIVE CORPORATE-WIDE NETWORK
Amcor offers customers an unmatched range of packaging solutions and expertise to respond to the most demanding needs of the pharmaceutical and bioscience markets. With our extensive global reach, Amcor delivers the highest value proposition to our customers through enhanced local service and greater supply continuity.

In addition to our glass offering, we have proven expertise in high barrier packaging for a wide range of applications, including tablets and capsules, powders, liquids, ointments, oral dissolvable strips, transdermal patches, inhalers, and parenteral and IV drugs. Our solutions include push-through, peelable and child-resistant blister packing, child-resistant tear stick packs, peel or tear open pouches, plastic bottles, caps, closures and fitments, glass tubes, vials and ampoules, anti-counterfeit and patient compliance packaging; and the broadest collection of primary, secondary and auxiliary packaging services.
Invested in Quality
our goal is zero-defect quality levels

Vertical Integration
We meet your exacting requirements through the vertical integration of our primary and secondary operations, along with a full range of vial and ampoule production equipment.

Statistical Process Control
Control at the point of manufacturing
• Allows shop floor employees to make real-time decisions about the process
• Reduces variability and scrap
• Scientifically improves productivity
• Uncovers hidden process and product relationships

Vision inspection systems
• Equipped on all our lines, inspecting 100% of production
• Perform crack detection, ensuring non-contamination of the product
• Reduce the chance of crashes on the filling lines
• Provide systematic check for dimensional and cosmetic requirements to meet global pharmaceutical glass standards and quality levels

U.S. vials sites: VIMEC systems
Woodbridge, Ontario site: Visiglas systems
Millville Tube Draw: Customized state-of-the-art vision inspection systems

Product capability reporting
• Finished product measurement systems offline at each plant using VIMEC
• Supports product release requirements for each customer
• Allows for “dock to stock” shipments to approved customers
• Supports compliance requirements as specified within approved Quality Agreements

Automatic Tube Feeder Systems
We have recently made the switch to automatic tube feeder systems as part of our effort to fully automate the converting process. Automatic tube loaders save time and improve operating efficiencies by reducing the amount of glass handling for an operator and eliminating steps in the production process.

Technical Services Glass Laboratory
• Analytical Testing
• Documentation: US and Canada DMF, COA, COC, Pre-Audit Questionnaires
• Technical Support
• Ongoing upgrades to the analytical laboratory
• Technical support onsite at our 5 North American production facilities

Integrated Quality System
Our Compliant Quality Systems are congruent with yours
• ISO 9001:2000
• ISO 14001
• OSHAS 18001
• Pursuing ISO 15378 certification for “Primary packaging materials for medicinal products”
• Class 100,000 packaging rooms

AMPOULES
Glass ampoules are the ideal packaging material for fluid preparation. We specialize in the production of drinkable and injectable ampoules (two-point and at bottom), as well as blood collection tubes and test tubes with a capacity of 1 to 30 ml.

Being tamper-proof, transparent, impermeable to gas and resistant to any interaction between container and content, total product safety is guaranteed through these essential properties.

Glass Types
• Neutral clear Type I - NSV 51
• Neutral clear Type I - NSV 51 with cerium
• Neutral clear Type I - Expansion 33
• Half-neutral amber Type II - G38
• Soda-lime and soda-lime with cerium
• Neutral amber glass Type I

Enhanced ampoule options
• Printing
• Breaking system (color break or OPC)
• Slide treatment

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TUBE DRAWING

With state-of-the-art Danner and Vello drawing processes, our range of glass tubing is particularly suited for vials, ampoules, bottles, disposable medical products and pre-filled syringes. Properties include excellent mechanical strength and thermal properties with maximum workability in customer transformation processes.

Type I 33
- W33 Borosilicate Glass
- Low expansion, clear
- Best suitable for vial and ampoule packaging, as well as scientific applications
- Offers exceptional chemical durability and resistance to thermal shock breakage formulated without arsenic, calcium, or barium

Type I 51
- NSV51 Borosilicate Glass
- Used mainly in pre-filled syringes, ampoules, and vials
- Offers exceptional chemical durability
- Formulated without arsenic or barium

Type I 51 with Cerium
- Expansion borosilicate is a class I neutral glass that meets the requirements of worldwide Pharmacopoeias
- Does not use arsenic as a refining agent
- It can be gamma sterilized without discoloration
- Particularly suitable for vials, injectable or drinkable ampoules, bottles, disposable medical products and pre-filled syringes
- Excellent mechanical strength and thermal properties with maximum workability in customer transformation processes
- Tegoglass and Emsorb coatings can also be applied
- Preplanning is necessary for supply of this product, as it is produced once a year in our Aumale, France tube draw facility

Type III Soda-lime with Cerium
- WGS Soda-lime Glass Tubing, a clear Type III glass
- Used primarily to manufacture pharmaceutical and scientific products
- Designed to withstand gamma sterilization without discoloration/browning of glass
- Formulated without arsenic

B44 Soda-lime with Cerium
- Specially developed to meet the increasingly difficult requirements for volume production
- Its hydrolytic resistance is extremely high for a soda-lime glass as a result of the addition of components, such as B2O3 and Al2O3
- The expansion chemical resistance properties offer total reliability
- Tegoglass and Emsorb coatings can also be applied
- Preplanning is necessary for supply of this product, as it is produced in our European facility

G38 Amber
- Half neutral borosilicate amber color glass
- Specially developed for ampoules for drinkable products and for vials containing liquids, solids or sprays
- Extremely stable to heat treatment and has very high mechanical strength
- Excellent material for high-speed manufacturing
- Tegoglass and Emsorb coatings can also be applied
- Preplanning is necessary for supply of this product, as it is produced in our European facility

Tubing sizes and coating
- Our wide range of standard sizes and protective coating options are based upon the needs of the pharmaceutical, scientific, and cosmetics industries

VIALS

We are a fully integrated tubing manufacturer supplying clear and amber vials to the pharmaceutical, scientific and cosmetics markets.

We produce our vials from Type I 33 expansion glass tubing: a low expansion, low sodium formulation that is commonly known as Pyrex-like and ASTM designates it as a Class A' borosilicate.

As this type of glass withstands temperature ranges from extreme heat to extreme cold, it is ideal for terminal sterilization, autoclaving, depyrogenation and lyophilization. The low sodium formulation combined with the "Wheaton Process 33-EP" passes requirements from European, Japanese and United States Pharmacopoeias for hydrolytic resistance.

Production strengths
- Vello Drawn 33 expansion Type I glass for clear vials
- ISO 9001:2000 certified
- Lean Six Sigma philosophy utilization
- Lab testing facilities for all manufacturing locations
- Clear room packaging
- Proprietary machine and tooling design and fabrication
- Technical Service Group

Glass Types
- Type I Amber
- Type I Clear
- W33 expansion
- W51 expansion
- W51 expansion with Cerium

Vial styles
- Aluminum Seal
- Screw Thread
- Snap-Cap

Vial sizes
- Outside diameter 12mm-40mm
- Length 28mm-125mm
- Practical Fill 1-100ml

Enhanced features
- Ammonium Sulfate treatment
- In-line decorating using ceramic paint
- Glass certifications (EP, JP, USP)
- Blowback
- Lyophilization vials
- Vision Systems
- Custom Manufacturer

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- Low expansion, clear
- Best suitable for vial and ampoule packaging, as well as scientific applications
- Offers exceptional chemical durability and resistance to thermal shock breakage formulated without arsenic, calcium, or barium

Type I 51
- NV51 Borosilicate Glass
- Used mainly in pre-filled syringes, ampoules, and vials
- Offers exceptional chemical durability
- Formulated without arsenic or barium

Type I 51 with Cerium
- Expansion borosilicate is a class 1 neutral glass that meets the requirements of worldwide Pharmacopoeias
- Does not use arsenic as a refining agent
- It can be gamma sterilized without discoloration
- Particularly suitable for vials, injectable or drinkable ampoules, bottles, disposable medical products and pre-filled syringes
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- WG6 Soda-lime Glass Tubing, a clear Type III glass
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- Vello Drawn 33 expansion Type I glass for clear vials
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- Lean Six Sigma philosophy utilization
- Lab testing facilities for all manufacturing locations
- Clear room packaging
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