SPIRITS CATALOG 2017

FUSION GLASSWORKS

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At Fusion Glassworks, we are especially suited to help you develop your own custom bottle to complement your branding and message. Our bespoke molds are extremely affordable, with test molds starting around $1500 and full sets of production molds from $4000-$6000. Comparable American or European vendors could charge ten times as much for an equivalent set of molds!
The Padrino Tequila bottle is the culmination of several years of development, and is the most complicated and difficult bottle we have ever produced. The bottle is crystal flint glass with engraved and plated zinc elements - the closure, collar, faceplate and medallion. The engravings of each piece have been painstakingly filled with white ink to add a striking contrast. The final product has 330 rhinestones applied to the surface for a breathtaking sparkle.

Padrino
Los Angeles, CA
http://www.padrinotequila.com

Park Distillery produces hand crafted, small batch spirits and is located in a National Forrest in Banff, Alberta, Canada. The bottles for these spirits are one of our Standard bottles. The high quality bottles are finished with adhesive labels on the front, back, and neck, as well as a smooth walled black plastic topped synthetic shank closure.

Park Distillery
Canada
http://www.parkdistillery.com

A throwback to the days of rum-running, the Charleston Distilling bottle has their logo embossed on the front of the bottle. It is made from crystal flint and comes as both a clear and a green-coated version. The closure is synthetic cork with a copper-plated aluminum upper that has also been embossed with their logo. Paper labels are applied by hand at the distillery.

Charleston Distilling
Charleston, SC
http://www.charlestondistilling.com

Bold and strong, this rectangular-shaped bottle has a thick base and embossed logo on one side. The front and back surfaces are labeled with decals of metallic gold ink, while the side has a hand-applied paper label. The closure is engraved with natural cork.

Hillrock Whiskey
Hudson Valley, NY
http://www.hillrockdistillery.com
A premium mineral water, in both still and sparkling varieties, Natura uses a super flint bottle with applied decal labeling. The closure is a custom plastic screw cap.

Four Pillars uses a custom crystal flint bottle. The label is adhesive paper, while the closure is wood top, synthetic cork encased with a tin capsule.

American Barwares uses a premium flint cocktail stirring glass, made using a custom 3-piece mold. The glass comes as a set with both the stirring spoon and strainer, which are made from high quality stainless steel.

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Iron Root Republic, Denison, TX
http://www.ironrootrepublic.com

A maker of Texas craft spirits, IRR has an exquisite crystal flint bottle with 3 colors of gradient spray on the base, denoting 3 different spirits. The labels are applied decals with an anodized aluminum “R” medallion. The closures are synthetic cork with anodized aluminum uppers to match the color of the sprayed bases.
In a market deluged with imported premium vodkas, Cinco Vodka was founded to provide American consumers with a 100% American-crafted, premium spirit. Using domestically grown wheat, Cinco has produced vodka of uncompromising taste, clarity and quality. The company came to us to design and produce a bottle that would speak to their made-in-America production and branding, while heralding the spirit’s premier attributes.

The final bottle design features crystal flint glass, for the highest levels of brilliance and clarity, a thick, substantial base, and a black gloss aluminum closure with a synthetic cork. The bottle surface has been embossed with a flourish of the company logo, and aligned vertically on either side are five embossed Texas stars. These stars feature in the bottle labeling, which has been adhered to the front of the bottle utilizing a ceramic heat transfer process.

Bootlegger Vodka
Prohibition Distillery, Long Island, NY
http://www.prohibitiondistillery.com/
In 2009, Prohibition Distillery came to us with a pencil drawing of a flower and a rough sketch of the bottle shape. We took their drawings and, working with our engineers, created this beautiful, fully custom, 750 mL standard flint bottle with the following features:
- embossed original floral artwork
- spray-coat coloration
- black aluminum closure with synthetic cork
- tamper evident tape seal
- adhesive paper labels

Top Shelf Mixers
Denver, CO
http://www.topshelfmixers.net/
Top Shelf Mixers sought to fill a niche in the beverage market by producing perfectly balanced, ultra-premium cocktail mixers that would complement and enhance the complex flavors of the premium spirits with which they would be used.

The company used the same 1L and 750 mL medium flint custom bottles across their entire line of products, which includes nine mixer varieties. The original 750mL bottle design incorporated an embossed surface, applied variety-specific external labeling and a lug screw cap. The 2nd generation 1L bottle is entirely frosted and incorporates a large rhinestone glued in a recessed indentation of the glass, while the closure was changed to a standard stelvin screw finish.

Republic Tequila
Austin, TX
http://www.republictequila.com/
Republic Tequila is ultra-premium 100% blue agave Tequila. As a nod to its Texan roots and as a show of their Texan pride, the company opted for two bottle designs. The first was a 750 mL standard flint Texas-shaped bottle that created a sensation on the local market when it debuted in 2009. Due to the complexity of the design the Texas bottles were blown individually by hand. External labels were also applied individually by hand and later baked into the surface of the glass. Each featured a synthetic cork closure that was color coordinated to match the particular variety of tequila the bottle contained.

Fusion also produced the bottles for Republic’s standard product line. Far more classic in shape, this custom 750 mL bottle is made from the highest quality superflint glass, offering incomparable purity and clarity.

Cinco Vodka
San Antonio, TX
http://www.cincovodka.com/
http://www.prohibitiondistillery.com/
Ambhar Tequila is artisanal, ultra-premium tequila hand-crafted in small batches from the finest 100 percent blue agave. While this elegant bottle was not originally developed by Fusion, Ambhar Tequila switched to us after having trouble with their Mexican vendor. Fusion was able to produce a higher quality bottle at a lower cost than the Mexican vendor, paired with a smoother and more reliable customer experience.

We produce this bottle in the ultra high clarity crystal flint glass. The ceramic heat transfer decal uses real platinum ink for the metallic logo. The closure and necklace medallion are both made from chrome plated zinc.

Genius Gin is handcrafted using a unique two-part “Hot and Cold” process which exposes the delicate and unique characteristics of each botanical. The founders of Genius wanted a sophisticated bottle to match their beautifully balanced gin.

Made in two varieties, regular and navy strength, Fusion produced these bottles in crystal flint glass. The labels are ceramic heat transfer process. The punt in the base of the bottles has been spray-colored to reflect the color of the juniper berry for the regular strength and black to show the power of the navy strength. Closures are printed stelvin screw caps.

Zebra Vodka is made from a complex combination of pure, Colorado spring water, sweet corn and a distillation process that is second to none. We produced this elegant bottle for Zebra in crystal flint glass. The labels are ceramic heat transfer with a silver metallic ring around an embossed logo in the center. The closure is a standard stelvin screw cap.

Hi Degree Tequila, distilled by Leyros Distillery in Jalisco Mexico, is 100% agave and was developed specifically for the Chinese market. The quantity of the first batch was below the standard MOQ for custom bottles, so the brand owner opted to go with our masculine stock FG-012 bottle for Hi Degree. We added his own custom label which was applied by ceramic heat transfer before leaving our factory. The closure is black aluminum with synthetic cork and a paper band is providing the tamper evidence.
Telluride Vodka is distilled from a base of corn grain and blended down with Rocky Mountain spring water. The unusually tall bottle is made from super flint glass and has a 2cm thick base. The label is ceramic heat transfer and accented with 22 karat gold leaf. The closure is a black stelvin screw cap.

Telluride, CO
Website

Snova Vodka created a unique surface texture for their bottle that resembles a mesh of interlocking ice crystals. The development was quite difficult, requiring 3 rounds of test molds before we achieved the texture they wanted. The resulting 1L crystal flint bottle is quite outstanding, with a ceramic heat transfer label in black and metallic silver, and a stelvin screw cap closure.

Snova Vodka
Denver, CO
http://www.snovavodka.com

Alister & Paine Magazine commissioned us to make a limited edition bottle for their 21 year old Scottish Whisky which they offered to their VIP subscribers. The bottle is 250ml and made from crystal flint glass. The logo of Alister & Paine Magazine was embossed on one side, with an double-sided ceramic heat transfer label applied to the other side. The closure is a stained hardwood top with a natural cork lower.

Alister Paine Whisky
New York, NY
http://www.alisterpaine.com

W Water is a premium mineral water drawn from artisan springs which filters the water through natural jurassic fossil beds. Launched in the UK, W Water has a tall super flint bottle with a square footprint. There are multiple styles of their bottle - clear, frosted, black sprayed. The front has either a silver metallic or a black ceramic heat transfer label. The back labels are adhesive pvc in either gloss or matte finish. The closure is a custom plastic shell with a synthetic cork stopper. They use a printed silver tamper evident band to seal the bottle.

W Water
Southampton, UK
http://www.springwateruk.com

W Water is a premium mineral water drawn from artisan springs which filters the water through natural jurassic fossil beds. Launched in the UK, W Water has a tall super flint bottle with a square footprint. There are multiple styles of their bottle - clear, frosted, black sprayed. The front has either a silver metallic or a black ceramic heat transfer label. The back labels are adhesive pvc in either gloss or matte finish. The closure is a custom plastic shell with a synthetic cork stopper. They use a printed silver tamper evident band to seal the bottle.
Maven is a vodka and wine cocktail made in both pinot noir and chardonnay varieties. The bottle is frosted super flint glass, with a hexagonal base made to fit perfectly into the hexagonal cavity on top of the custom plastic closure. The labels are applied decals.

With a beautiful crystal flint bottle, Silverback really stands out on the shelf. The rear label is a double-sided decal showing black from the back side and the gorilla image from the front which gets magnified through the liquid. The middle label is made from custom stamped and printed aluminum. The closure, likewise, is custom embossed aluminum on black synthetic cork.

Wild Tonic Jun Kombucha is a unique cousin of kombucha that is fermented with honey rather than sugar. The custom bottle is a stunning cobalt blue glass with embossed bees and brand name around the bottle, as well as a printed ROPP closure.

Unmistakable behind a bar or on a retail shelf, the Firestarter Vodka bottle is custom designed and made with super flint glass. The ceramic decal label wraps completely around the entire bottle and the closure, made from a combination of plastic and metal, is designed to look like a fire extinguisher. We produce this bottle in 750ml and 1000ml.
Revel is a smooth, triple distilled agave spirit and the high quality square custom bottle was created to showcase just that. The bottle is a higher weight bottle with a thicker base. There are applied baked labels on the front of the bottle and neck, as well as rhinestones placed by hand on the front. The glass closure is custom as well, with a “floating” laser-etched logo in the middle.

Revel Spirits
Venice, CA
http://www.revelspirits.com

Trust Me Vodka is made from local ingredients and naturally purified water from the Grand Tetons. The custom bottle gives talented artists a new canvas for their work. The high quality bottle has the words Trust Me embossed on the front with applied decals laid over the embossing and the lower front. There is a double sided adhesive label on the back that shows the artwork from the front. The bottle is finished with a black cased synthetic cork closure and custom printed tin capsule.

Trust Me
Carlsbad, CA
http://www.trustmevodka.com

Yellow Rose Distilling is an emerging micro-distillery located in Houston, TX. Known as the first legal whiskey distillery in Houston, they needed a bottle to match the product they produce. The high quality crystal first custom glass bottle was produced to set them apart on the shelves and includes a debossed area around the base, as well as metallic gold and white baked decals on the front.

Yellow Rose Distilling
Houston, TX
http://www.yellowrosedistilling.com

Revivalist Gin is a hand crafted, grain to bottle spirit produced in Pennsylvania by Brandywine Branch Distillers. The bottle mirrors the shape of a stock bottle with some custom features added to set it apart. A hand grip was added around the middle of the bottle, as well as a custom embossed logo on the top front.

Revivalist Gin
Elverson, PA
http://www.brandywinebranchdistillers.com

Trust Me Vodka is made from local ingredients and naturally purified water from the Grand Tetons. The custom bottle gives talented artists a new canvas for their work. The high quality bottle has the words Trust Me embossed on the front with applied decals laid over the embossing and the lower front. There is a double sided adhesive label on the back that shows the artwork from the front. The bottle is finished with a black cased synthetic cork closure and custom printed tin capsule.

Trust Me
Carlsbad, CA
http://www.trustmevodka.com

Yellow Rose Distilling is an emerging micro-distillery located in Houston, TX. Known as the first legal whiskey distillery in Houston, they needed a bottle to match the product they produce. The high quality crystal first custom glass bottle was produced to set them apart on the shelves and includes a debossed area around the base, as well as metallic gold and white baked decals on the front.

Yellow Rose Distilling
Houston, TX
http://www.yellowrosedistilling.com

Revivalist Gin is a hand crafted, grain to bottle spirit produced in Pennsylvania by Brandywine Branch Distillers. The bottle mirrors the shape of a stock bottle with some custom features added to set it apart. A hand grip was added around the middle of the bottle, as well as a custom embossed logo on the top front.

Revivalist Gin
Elverson, PA
http://www.brandywinebranchdistillers.com
The name Milk Can honors the rich, colorful tradition of rebel distilling in Wyoming. Milk Can Moonshine is packaged in a custom made milk bottle to pay tribute to the Wyoming Moonshiners of the past. The custom bottle has the words Milk Can embossed on the front, as well as an embossed moon and star on the front and back. The bottle is spray coated white and gradients out to clear towards the top of the bottle. There are applied decals placed over the embossing on the front of the bottle, with printed adhesive labels and tamper evidence to finish.

Milk Can Moonshine
Milss, WY
http://www.milkcanmoonshine.com

El Jefe Tequila
Monterey, CA
http://www.eljefetequila.com

El Jefe Tequila is the new generation of luxury craft tequila, and their custom crystal flint bottle was produced to match. The front of the bottle includes a recessed area where the embossed pewter label is laid. The base of the bottle features another recessed area of an agave leaf. The flat beveled edges add a strong, powerful look to the bottle that is topped off with a custom closure including an embossed logo and synthetic cork shank.

Simple Vodka
West Palm Beach, FL
http://www.simplespirits.co

Simple Vodka was created as a high-quality farm to bottle vodka on a mission to end hunger in America. The bottle used is a high-quality stock bottle with a white spray-coating that gradients out to clear towards the top of the bottle with baked on applied labels. The closure is a stock synthetic shank closure with a printed top and the bottle is finished with a printed tamper evidence strip.

Gypsy Vodka
Bingham Farms, MI
http://www.gypsyvodka.com

Gypsy Vodka was crafted for the young, wild, and free. The crystal flint bottle is a gorgeous custom bottle with spray coloring on the upper portion. The labels are applied decals on both the front and back, with a custom produced screw top closure with built-in tamper evidence.
In addition to custom bottles, Fusion offers standard and stock bottles thereby allowing us to easily adjust to any quantity you may need. As a stock bottle shape may also be used by dozens of other brands, Fusion Glassworks is capable of just about any style of decoration you require to fully customise your bottle and stand out from the shelves.
<table>
<thead>
<tr>
<th>Glassware</th>
<th>Article No.</th>
<th>Finish</th>
<th>Glass quality</th>
<th>Brimful capacity (mL)</th>
<th>Approx. weight (g)</th>
<th>Height (mm)</th>
<th>Diameter (mm)</th>
<th>Diameter (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Svelte</td>
<td>FG-001-750S</td>
<td>Cork</td>
<td>Crystal flint</td>
<td>750</td>
<td>1025</td>
<td>330</td>
<td>85 / 65</td>
<td></td>
</tr>
<tr>
<td>Naive</td>
<td>FG-002-750S</td>
<td>Cork</td>
<td>Crystal flint</td>
<td>750</td>
<td>580</td>
<td>310</td>
<td>77.7</td>
<td></td>
</tr>
<tr>
<td>Banyan</td>
<td>FG-004-750C</td>
<td>Cork</td>
<td>Crystal flint</td>
<td>750</td>
<td>1025</td>
<td>330</td>
<td>85 / 65</td>
<td></td>
</tr>
<tr>
<td>Glug</td>
<td>FG-005-750C</td>
<td>Cork</td>
<td>Crystal flint</td>
<td>750</td>
<td>800</td>
<td>310</td>
<td>79</td>
<td></td>
</tr>
<tr>
<td>Stock</td>
<td>FG-006-200C</td>
<td>Cork</td>
<td>Crystal flint</td>
<td>1000</td>
<td>800</td>
<td>310</td>
<td>79</td>
<td></td>
</tr>
<tr>
<td>Lafountain</td>
<td>FG-006-200C</td>
<td>Cork</td>
<td>Crystal flint</td>
<td>750 / 1000</td>
<td>580 / 350</td>
<td>330 / 350</td>
<td>75 / 83.5</td>
<td>62 / 53 / 47</td>
</tr>
<tr>
<td>Stubbs Senior</td>
<td>FG-008-750C</td>
<td>Cork</td>
<td>Standard and green flint</td>
<td>750</td>
<td>1025</td>
<td>330</td>
<td>85.5</td>
<td></td>
</tr>
<tr>
<td>Stock</td>
<td>Monolith</td>
<td>Lennox</td>
<td>Poisson</td>
<td>Tom Thumb</td>
<td>Jambo</td>
<td>Tower</td>
<td>Greece</td>
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<tr>
<td>Article No. FG-009-750S</td>
<td>Article No. FG-012-750C</td>
<td>Article No. FG-013-750C</td>
<td>Article No. FG-014-750C</td>
<td>Article No. FG-015-1000C</td>
<td>Article No. FG-016-750C</td>
<td>Article No. FG-017-750C</td>
<td>Article No. FG-018-750C</td>
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<tr>
<td><strong>Finish</strong></td>
<td><strong>Cork</strong></td>
<td><strong>Cork</strong></td>
<td><strong>Cork</strong></td>
<td><strong>Cork</strong></td>
<td><strong>Cork</strong></td>
<td><strong>Cork</strong></td>
<td><strong>Cork</strong></td>
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</tr>
<tr>
<td><strong>Brimfull capacity (mL)</strong></td>
<td>750</td>
<td>750</td>
<td>750</td>
<td>750</td>
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<td>750</td>
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<td><strong>Approx. weight (g)</strong></td>
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<td>1000</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td><strong>Height (mm)</strong></td>
<td>247</td>
<td>293 / 310</td>
<td>108.5 / 70; 118 / 76.8</td>
<td>104 / 81.2</td>
<td>117 / 92.2 / 64</td>
<td>900</td>
<td>355</td>
<td></td>
</tr>
<tr>
<td><strong>Diameter (mm)</strong></td>
<td>76.5</td>
<td>76.5</td>
<td>76.5</td>
<td>76.5</td>
<td>76.5</td>
<td>76.5</td>
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<td></td>
</tr>
</tbody>
</table>

**Finish:** Screw
**Glass quality:** Crystal flint

**Brimfull capacity (mL):** 750
**Approx. weight (g):** 785
**Height (mm):** 344.5
**Diameter (mm):** 76.5

**Finish:** Cork
**Glass quality:** Crystal flint

**Brimfull capacity (mL):** 750
**Approx. weight (g):** 1000
**Height (mm):** 247
**Diameter (mm):** 101.5 / 55

**Finish:** Cork
**Glass quality:** Crystal flint

**Brimfull capacity (mL):** 750
**Approx. weight (g):** 1000
**Height (mm):** 293 / 310
**Diameter (mm):** 108.5 / 70; 118 / 76.8

**Finish:** Cork
**Glass quality:** Crystal flint

**Brimfull capacity (mL):** 750
**Approx. weight (g):** 1000
**Height (mm):** 104 / 81.2
**Diameter (mm):** 76.5

**Finish:** Cork
**Glass quality:** Crystal flint

**Brimfull capacity (mL):** 750
**Approx. weight (g):** 1000
**Height (mm):** 117 / 92.2 / 64
**Diameter (mm):** 76.5

**Finish:** Cork
**Glass quality:** Crystal flint

**Brimfull capacity (mL):** 750
**Approx. weight (g):** 1000
**Height (mm):** 104 / 81.2
**Diameter (mm):** 76.5

**Finish:** Cork
**Glass quality:** Crystal flint

**Brimfull capacity (mL):** 750
**Approx. weight (g):** 1000
**Height (mm):** 104 / 81.2
**Diameter (mm):** 76.5

**Finish:** Cork
**Glass quality:** Crystal flint

**Brimfull capacity (mL):** 750
**Approx. weight (g):** 900
**Height (mm):** 355
**Diameter (mm):** 542

**Finish:** Cork
**Glass quality:** Crystal flint

**Brimfull capacity (mL):** 750
**Approx. weight (g):** 700
**Height (mm):** 342
**Diameter (mm):** 82.5

**Finish:** Cork
**Glass quality:** Crystal flint

**Brimfull capacity (mL):** 750
**Approx. weight (g):** 700
**Height (mm):** 342
**Diameter (mm):** 82.5
Aquavita
Article No. FG-017 -750C
Finish...................................  Cork
Glass quality .........................  Crystal flint
Brimful capacity (mL)........... 750
Approx.  weight (g)................  982
Height (mm)......  ..................  342
Diameter (mm)....................   64 / 64

Peat
Article No. FG-030 -750C
Finish...................................  Cork
Glass quality .........................  Super flint
Brimful capacity (mL)........... 750
Approx.  weight (g)................  850
Height (mm)......  ..................  221
Diameter (mm)....................   97.2 / 87.2

Jugg
Article No. FG-020-050S
Finish...................................  Screw
Glass quality .........................  Normal flint
Brimful capacity (mL)........... 50
Approx.  weight (g)................  70
Height (mm)......  ..................  105
Diameter (mm)....................   38.1

Thumby
Article No. FG-019-700C
Finish...................................  Cork
Glass quality .........................  Super flint
Brimful capacity (mL)...........700
Approx.  weight (g)................  931
Height (mm)......  ..................  200
Diameter (mm)....................  147.5 / 68.5

Flashdance
Article No. FG-021-750C
Finish...................................  Cork
Glass quality .........................  Super flint
Brimful capacity (mL)...........750
Approx.  weight (g)................  830
Height (mm)......  ..................  230
Diameter (mm)....................  89

Snifter
Article No. FG-022-700C
Finish...................................  Cork
Glass quality .........................  Super flint
Brimful capacity (mL)...........700
Approx.  weight (g)................  891
Height (mm)......  ..................  185
Diameter (mm)....................  94
Stoops
Article No. FG-027-700C
Finish...............................................Cork
Glass quality..............................Super flint
Brimfull capacity (mL)...........750
Approx. weight (g).................900
Height (mm)...............................251
Diameter (mm).........................155 / 81

Mr. Fantastic
Article No. FG-026-720C
Finish...............................................Cork
Glass quality..............................Crystal flint
Brimfull capacity (mL)...........720
Approx. weight (g).................967
Height (mm)...............................220
Diameter (mm).........................151.5 / 66.5

Fishscale
Article No. FG-024-700C
Finish...............................................Cork
Glass quality..............................Crystal flint
Brimfull capacity (mL)...........700
Approx. weight (g).................760
Height (mm)...............................225
Diameter (mm).........................144.5 / 70

The blob
Article No. FG-025-750C
Finish...............................................Cork
Glass quality..............................Crystal flint
Brimfull capacity (mL)...........750
Approx. weight (g).................865
Height (mm)...............................210
Diameter (mm).........................170 / 80.5

Pebbles
Article No. FG-023-750C
Finish...............................................Cork
Glass quality..............................Super flint
Brimfull capacity (mL)...........750
Approx. weight (g).................900
Height (mm)...............................211
Diameter (mm).........................155 / 81

Stoops
Article No. FG-027-700C
Finish...............................................Cork
Glass quality..............................Crystal flint
Brimfull capacity (mL)...........700
Approx. weight (g).................746
Height (mm)...............................187
Diameter (mm).........................115 / 65

Amulet
Article No. FG-028-500C
Finish...............................................Cork
Glass quality..............................Crystal flint
Brimfull capacity (mL)...........500
Approx. weight (g).................652
Height (mm)...............................345
Diameter (mm).........................75.5 / 57

Slim Pickins
Article No. FG-029-500C
Finish...............................................Cork
Glass quality..............................Crystal flint
Brimfull capacity (mL)...........500
Approx. weight (g).................652
Height (mm)...............................345
Diameter (mm).........................75.5 / 57

Amulet
Article No. FG-028-500C
Finish...............................................Cork
Glass quality..............................Crystal flint
Brimfull capacity (mL)...........500
Approx. weight (g).................652
Height (mm)...............................345
Diameter (mm).........................75.5 / 57
Sometimes color is added directly to the glass material during production. Coloration of this sort on custom bottles only applies in situations involving extremely high quantity production runs. However, your custom bottles can also be colored via food-safe spray coating. Please contact us to know our current inventory of colored bottles.
<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Finish</th>
<th>Glass quality</th>
<th>Brimfull capacity (mL)</th>
<th>Approx. weight (g)</th>
<th>Height (mm)</th>
<th>Diameter (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FG-050DBL-1000S</td>
<td>Cork</td>
<td>Standard flint</td>
<td>750</td>
<td>535</td>
<td>330</td>
<td>86</td>
</tr>
<tr>
<td>FG-050LBL-1000S</td>
<td>Cork</td>
<td>Standard flint</td>
<td>500</td>
<td>491</td>
<td>225</td>
<td>76</td>
</tr>
<tr>
<td>FG-051BLK-750S</td>
<td>Screw</td>
<td>Standard flint</td>
<td>500</td>
<td>451</td>
<td>225</td>
<td>76</td>
</tr>
<tr>
<td>FG-051DBL-750S</td>
<td>Cork</td>
<td>Standard flint</td>
<td>750</td>
<td>535</td>
<td>330</td>
<td>76</td>
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<tr>
<td>FG-051LBL-750S</td>
<td>Cork</td>
<td>Standard flint</td>
<td>500</td>
<td>491</td>
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<td>Standard flint</td>
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<td>491</td>
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<tr>
<td>FG-053BLK-250S</td>
<td>Screw</td>
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<td>250</td>
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<td>250</td>
<td>250</td>
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<td>250</td>
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<td>FG-055DBL-250S</td>
<td>Cork</td>
<td>Standard flint</td>
<td>750</td>
<td>535</td>
<td>330</td>
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<td>Cork</td>
<td>Standard flint</td>
<td>500</td>
<td>491</td>
<td>225</td>
<td>76</td>
</tr>
<tr>
<td>FG-056PPE-750S</td>
<td>Feather</td>
<td>Slimbo</td>
<td>Thug Life</td>
<td>Chug</td>
<td>Dapper</td>
<td>Bert</td>
</tr>
</tbody>
</table>

**Rustica**

- Art. No. FG-050BLK-1000S
- Art. No. FG-050DBL-1000S
- Art. No. FG-050LBL-1000S

**Amish**

- Art. No. FG-051BLK-750S
- Art. No. FG-051DBL-750S
- Art. No. FG-051LBL-750S

**Plug**

- Art. No. FG-052BLK-500S
- Art. No. FG-052DBL-500S
- Art. No. FG-052LBL-500S

- Art. No. FG-053BLK-250S
- Art. No. FG-053DBL-250S
- Art. No. FG-053LBL-250S

- Art. No. FG-054BLK-250S
- Art. No. FG-054DBL-250S
- Art. No. FG-054LBL-250S

- Art. No. FG-055BLK-250S
- Art. No. FG-055DBL-250S
- Art. No. FG-055LBL-250S

- Art. No. FG-056PPE-750S
- Art. No. FG-057PPE-500C
- Art. No. FG-057DBL-500C

- Art. No. FG-058DBL-750C
- Art. No. FG-059DBL-750C
- Art. No. FG-059DBL-250S
- Art. No. FG-060DBL-250S
<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Design</th>
<th>Finish</th>
<th>Glass quality</th>
<th>Brimfull capacity (mL)</th>
<th>Approx. weight (g)</th>
<th>Height (mm)</th>
<th>Diameter (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FG-061DBL-500S</td>
<td>Arrowhead</td>
<td>Cork</td>
<td>Standard flint</td>
<td>500</td>
<td>.740</td>
<td>224</td>
<td>114/87</td>
</tr>
<tr>
<td>FG-062DBL-250S</td>
<td>Toast</td>
<td>Screw</td>
<td>Standard flint</td>
<td>250</td>
<td>.627</td>
<td>234</td>
<td>69</td>
</tr>
<tr>
<td>FG-063DBL-750S</td>
<td>Wrappa</td>
<td>Screw</td>
<td>Standard flint</td>
<td>750</td>
<td>.705</td>
<td>235</td>
<td>97</td>
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<tr>
<td>FG-064DBL-500S</td>
<td>Hydrant</td>
<td>Screw</td>
<td>Standard flint</td>
<td>500</td>
<td>.511</td>
<td>256</td>
<td>58</td>
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<tr>
<td>FG-066LBL-500C</td>
<td>Bettina</td>
<td>Cork</td>
<td>Standard flint</td>
<td>500</td>
<td>.511</td>
<td>289</td>
<td>61.5</td>
</tr>
<tr>
<td>FG-067GRN-500C</td>
<td>Bobbina</td>
<td>Screw</td>
<td>Standard flint</td>
<td>500</td>
<td>.511</td>
<td>289</td>
<td>61.5</td>
</tr>
<tr>
<td>FG-068LBL-500C</td>
<td>Trina</td>
<td>Cork</td>
<td>Standard flint</td>
<td>500</td>
<td>.498</td>
<td>289</td>
<td>61.5</td>
</tr>
<tr>
<td>FG-069BLK-500C</td>
<td>Onyx</td>
<td>Cork</td>
<td>Standard flint</td>
<td>500</td>
<td>.498</td>
<td>289</td>
<td>61.5</td>
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<tr>
<td>FG-068SSL-300C</td>
<td>Redina</td>
<td>Cork</td>
<td>Standard flint</td>
<td>300</td>
<td>.511</td>
<td>289</td>
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</tr>
<tr>
<td>FG-069BLK-300C</td>
<td>Onyx</td>
<td>Cork</td>
<td>Standard flint</td>
<td>300</td>
<td>.511</td>
<td>289</td>
<td>61.5</td>
</tr>
<tr>
<td>FG-070BLK-700S</td>
<td>Eye-Thai</td>
<td>Cork</td>
<td>Standard flint</td>
<td>700</td>
<td>.511</td>
<td>289</td>
<td>61.5</td>
</tr>
</tbody>
</table>
Fusion can also provide you with specialized bottles such as miniatures or handcrafted bottles. In the next page you will find a selection of miniature bottles for which we have molds. We can also create custom miniatures with a full range of decoration services. For standard flint quality, the minimum order starts at 10,000 bottles.
<table>
<thead>
<tr>
<th>Product</th>
<th>Article No.</th>
<th>Finish</th>
<th>Glass Quality</th>
<th>Brimfull Capacity (mL)</th>
<th>Approx. Weight (g)</th>
<th>Height (mm)</th>
<th>Diameter (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambhar Tequila 50mL</td>
<td>FG-089-50S</td>
<td>Cork</td>
<td>Standard flint</td>
<td>50</td>
<td>125</td>
<td>140</td>
<td>37 / 40</td>
</tr>
<tr>
<td>La Muerta</td>
<td>FG-090-100S</td>
<td>Screw</td>
<td>Standard flint</td>
<td>100 / 350</td>
<td>220</td>
<td>152 / 204</td>
<td>78 / 40</td>
</tr>
<tr>
<td>Cinco Vodka 50mL</td>
<td>FG-080-050S</td>
<td>Screw</td>
<td>Standard flint</td>
<td>100</td>
<td>183</td>
<td>140</td>
<td>37</td>
</tr>
<tr>
<td>Trim</td>
<td>FG-081-50S</td>
<td>Cork</td>
<td>Standard flint</td>
<td>100</td>
<td>125</td>
<td>115</td>
<td>35</td>
</tr>
<tr>
<td>Flasks</td>
<td>FG-082-50S</td>
<td>Cork</td>
<td>Standard flint</td>
<td>50</td>
<td>96</td>
<td>120</td>
<td>35</td>
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<tr>
<td>Jugg</td>
<td>FG-083-50S</td>
<td>Screw</td>
<td>Standard flint</td>
<td>96</td>
<td>86</td>
<td>96</td>
<td>30</td>
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<tr>
<td>Peel</td>
<td>FG-084-50S</td>
<td>Cork</td>
<td>Standard flint</td>
<td>50</td>
<td>94</td>
<td>105</td>
<td>40</td>
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<tr>
<td>Fudge</td>
<td>FG-085-50S</td>
<td>Screw</td>
<td>Standard flint</td>
<td>93</td>
<td>57</td>
<td>118</td>
<td>37</td>
</tr>
<tr>
<td>Alabaster</td>
<td>FG-086-50S</td>
<td>Cork</td>
<td>Standard flint</td>
<td>57</td>
<td>58</td>
<td>98</td>
<td>37 / 40</td>
</tr>
<tr>
<td>Snax</td>
<td>FG-087-50S</td>
<td>Screw</td>
<td>Standard flint</td>
<td>54</td>
<td>58</td>
<td>113</td>
<td>38 / 29</td>
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<tr>
<td>Gutbuster</td>
<td>FG-088-50S</td>
<td>Cork</td>
<td>Standard flint</td>
<td>58</td>
<td>58</td>
<td>204</td>
<td>38 / 42</td>
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<tr>
<td>Peel</td>
<td>FG-089-350S</td>
<td>Screw</td>
<td>Standard flint</td>
<td>50</td>
<td>220</td>
<td>115</td>
<td>35 / 39</td>
</tr>
<tr>
<td>La Muerta</td>
<td>FG-090-100S</td>
<td>Screw</td>
<td>Standard flint</td>
<td>50</td>
<td>152</td>
<td>130</td>
<td>50 / 39</td>
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<tr>
<td>Fudge</td>
<td>FG-089-175S</td>
<td>Cork</td>
<td>Standard flint</td>
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<td>129</td>
<td>135</td>
<td>39 / 34</td>
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<tr>
<td>Cinco Vodka 50mL</td>
<td>FG-091-50S</td>
<td>Screw</td>
<td>Standard flint</td>
<td>50</td>
<td>135</td>
<td>114</td>
<td>34</td>
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<tr>
<td>Skull Bottle in 750 and 150ml</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
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<tr>
<td><strong>Finish</strong>..........................Cork</td>
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<tr>
<td><strong>Glass quality</strong>.....................Standard flint</td>
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<tr>
<td><strong>Brimfull capacity (mL)</strong>.........750 / 150</td>
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<td><strong>Approx. weight (g)</strong>..............890 / 246</td>
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<tr>
<td><strong>Height (mm)</strong>......................167 / 97</td>
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<tr>
<td><strong>Diameter (mm)</strong>....................113.5 / 111</td>
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<table>
<thead>
<tr>
<th>Potion</th>
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<tr>
<td><strong>Finish</strong>..........................Cork</td>
</tr>
<tr>
<td><strong>Glass quality</strong>.....................Standard flint</td>
</tr>
<tr>
<td><strong>Brimfull capacity (mL)</strong>.........200</td>
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<tr>
<td><strong>Approx. weight (g)</strong>..............305</td>
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<tr>
<td><strong>Height (mm)</strong>......................148</td>
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<tr>
<td><strong>Diameter (mm)</strong>....................64</td>
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<thead>
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<th>Tom Thumb</th>
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<tr>
<td><strong>Article No.</strong> FG-015-200C</td>
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<th>Elixir</th>
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<tr>
<td><strong>Article No.</strong> FG-092-200S</td>
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<table>
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<tr>
<th>Ultimat Power</th>
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<tr>
<td><strong>Jewel</strong></td>
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<table>
<thead>
<tr>
<th>Wank Fantasy</th>
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<tr>
<td><strong>Ren-fest</strong></td>
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<table>
<thead>
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<th>Potion</th>
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<tbody>
<tr>
<td><strong>Finish</strong>..........................Screw</td>
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<tr>
<td><strong>Article No.</strong> FG-093-100S</td>
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<td><strong>Finish</strong>..........................Screw</td>
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<tbody>
<tr>
<td><strong>Finish</strong>..........................Screw</td>
</tr>
<tr>
<td><strong>Article No.</strong> FG-093-100S</td>
</tr>
</tbody>
</table>
Fusion Glassworks is capable of just about any style of decoration you require – gradient coloration, full or selective frosting, ceramic heat transfer decals, and metallic coatings, among other options. Decoration becomes extremely important when using a stock bottle shape that may also be used by dozens of other brands. Notice the brands above all use the same stock bottle, but achieve drastically different looks through bottle decoration.
Deep, conical indentation rather than a flat surface are also possible to achieve. On this example, it has been sprayed.

Conical indented base

You can opt for a thick base to give your bottles a premium look.

Thick base and colored punt

The punt of your bottle can also be sprayed, giving your product a stylish look.

Conical indented base

Total, partial, colored and gradient frosting are also in our range of decoration skills.

Frosting/etching and ceramic coating

For a vintage touch, ceramic coating can also be applied to your glass bottles.

Frosting/etching and ceramic coating

Black spray coating with Applied Ceramic Label (ACL)

This custom bottle has been sprayed coated with black color on which a silver ACL has been applied.

Fusion also offers black matte coating.

Thick base and colored punt

You can opt for a thick base to give your bottles a premium look.

For an elegant touch, ceramic coating can also be applied to your glass bottles.

Frosting/etching and ceramic coating

On request, we can use environmentally friendly organic inks for your decoration.

Spray coating

Examples of custom bottle coloration via food-safe spray coating, a process that bakes externally applied color into the surface of the glass.

On request, we can use environmentally friendly organic inks for your decoration.

Spray coating
Embossing and gold coating

A

Your bottles can be embossed with almost any patterns. Different color coating can be achieved by applying masks to the bottles.

Metal ornament

B

Any kind of ornaments (made from metal or plastic) can be glued to your bottles.

Embossed pattern and paper label

C

A complex pattern has been embossed on the back of this custom bottle, then a paper label has been applied between the front and the right side of the bottle.

Gradient spray coating

D

2 examples of gradient spray coating.

Rhinestone and paper label

E

A rhinestone has been glued on this bottle before the paper label is applied.

Partial frosting

F

The same technique can also be used to make a window on a total frosted bottle.
Fusion offers standard and custom closures. A custom designed closure, while more expensive, helps set your bottle apart and give it added value. When deciding what closure to use with your bottle, it is important to also consider the tamper evidence (TE) method. Just like closures, TE systems can do double duty as both essential functional components and brand supporting design elements.
<table>
<thead>
<tr>
<th>Material</th>
<th>Customization</th>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Wood bartop closure</td>
<td></td>
<td>FG-T002-WN</td>
<td>Wooden upper part with natural cork.</td>
</tr>
<tr>
<td>Aluminum bartop closure</td>
<td></td>
<td>FG-T002-AN</td>
<td>Anodized aluminum upper part with natural cork.</td>
</tr>
<tr>
<td>Customized aluminum bartop</td>
<td></td>
<td></td>
<td>Aluminum upper part with synthetic cork. The lower part can be colored as you wish.</td>
</tr>
<tr>
<td>Customized zinc closure</td>
<td></td>
<td></td>
<td>Brushed zinc upper with natural cork.</td>
</tr>
<tr>
<td>Customized plastic closure</td>
<td></td>
<td></td>
<td>Electroplated plastic upper with natural cork.</td>
</tr>
<tr>
<td>Plastic or zinc bartop</td>
<td></td>
<td>FG-T004-PS (ZS)</td>
<td>Plastic or zinc upper part with synthetic cork.</td>
</tr>
<tr>
<td>Aluminum bartop closure</td>
<td></td>
<td>FG-T005-AS</td>
<td>Electroplated aluminum top with synthetic cork.</td>
</tr>
<tr>
<td>Customized plastic bartop</td>
<td></td>
<td></td>
<td>Plastic electroplated upper part with rubber cork.</td>
</tr>
<tr>
<td>Customized wood bartop</td>
<td></td>
<td></td>
<td>Wood square top with natural cork.</td>
</tr>
<tr>
<td>Customized glass bartop</td>
<td></td>
<td></td>
<td>Glass cap with synthetic cork.</td>
</tr>
<tr>
<td>Customized crystal bartop</td>
<td></td>
<td></td>
<td>Crystal glass closure with plastic cork. Artwork laser etched in the center of the crystal.</td>
</tr>
<tr>
<td>Customized crystal bartop</td>
<td></td>
<td></td>
<td>Crystal glass closure.</td>
</tr>
<tr>
<td>Customized crystal bartop</td>
<td></td>
<td></td>
<td>Crystal glass closure with plastic cork. Artwork laser etched in the center of the crystal.</td>
</tr>
<tr>
<td>Capsules designed for bottles with tapering necks.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tin or aluminum foil capsules</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heatshrink capsules</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black PCE screw cap with break away TE band.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminum crown cap FG-C0001 Gold color aluminum crown cap used for beer or soda bottles.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCO TE plastic cap FG-C001 Black PCE screw cap with break away TE band.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>42mm MTO gold lug cap with tamper evident pop-up button.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTO lug cap FG-L042-C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plastic square top closure Square plastic housing with synthetic cork inside.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plastic guala closure Guala finish closure made of plastic with electroplating.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plastic guala closure Guala finish closure made of plastic with electroplating.</td>
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<td>Gold foil capsule</td>
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Fusion Glassworks offers custom designed and printed cardboard cartons for your bottles. We can accommodate any needs you may have – the number of bottles per carton, the quality of the cardboard, coating, and printing. In addition to larger packaging, Fusion also offers individual ‘jewel’ boxes for your bottles.
Inexpensive kraft cardboard shipping cartons in any configuration you choose.

Silver hot stamp printing available for all cartons.

Individual bottle paper gift bags with rope carry string.

Individual bottle gift boxes. These can be simple printed cardboard boxes or fancy jewel cases with hinged doors and satin interiors.

We offer 4 or 6 color printed cardboard reshipper cards. The cartons can be natural matte finish or have a glossy coating layer. Bottles are separated by cardboard dividers. Single and double ply cardboard available.
**PROMOTIONAL ITEMS**

**Branded clothing and hats**

We can offer branded hats, t-shirts, and other clothing to be used as gifts or promotional materials.

**Necker leaflets**

Hang a leaflet around your bottle neck with info about your brand or unique cocktail recipes.

**Votive LED mood lights**

These little LED mood lights slowly change color and are perfect for helping display your bottle. They can be made with a variety of designs on top.

**Bar mats**

Create bar mats of any size and shape with your company’s name and logo. Great for promotions in bars and restaurants.

**Guitar pick-necklace**

Distribute branded necklaces or bracelets to your target customers.

**Cocktail Shakers**

Branded cocktail shakers are perfect for giving to bars to help promote your brand.
**Brainstorming**

Your bottle begins with an idea. Perhaps it’s something novel. Or perhaps it’s a variation on an existing shape. Give us a verbal description, a line drawing, or even a sketch on the back of a napkin and we’ll help you make it.

**3D Modeling & Renderings**

Our 3D engineers will turn your idea into a realistic rendering with depth and texture. During this stage, we incorporate your decoration elements—labeling, frosting, closure, and tamper seals—enabling you to visualize your idea from multiple angles.

**Test Mold & Sampling**

From the 3D model, we create a technical 2D drawing used to design the test mold for the bottle prototypes. The prototyping process generally takes about 4 weeks, though varies depending on how complex your design is. This is where your idea becomes a reality.

**Production**

Once you have approved the prototypes, it will take 4 weeks to tool a full set of production molds. At this point, scheduling and running a production usually takes 4-6 weeks. Your bottles will be packed in reshipper cartons and stacked securely on pallets for shipping. In a few weeks, they will arrive at your distillery ready to be filled.
FREQUENTLY ASKED QUESTIONS

What is the minimum order quantity (MOQ)?

For custom superflint bottles, the required minimum order is one full 40-finish container (40 FT) — for more information refer to: http://www.hgrosse.de/40ft.htm. For custom standard flint bottles, the MOQ is two full 40’HC containers. The actual quantity per container will depend on the size of the bottle and how it is packed. That said, if you are interested in a standard stock bottle, it is possible that you will be invoiced in inventory that we are willing to sell in smaller quantities.

Approximately how many bottles can fit in a 40’HC?

Symmetrical 750ml bottles can fit approximately 240. If they are packed with boxes, or roughly 270 if they are packed in bulk. Irregularly shaped 750ml bottles usually fit approximately 220 if they are packed in boxes. Roughly 60 standard 12 oz. beer bottles will fit in a 40’HC.

If we order a full container, can we opt for partial shipment and keep the rest in stock for later?

Generally, yes. The MOQ is the minimum we must order from the factory. It is not required that we ship everything at once. If you are interested in a standard stock bottle, it is possible that you will be invoiced in inventory that we are willing to sell in smaller quantities.

What is tamper evidence?

There are many methods of providing tamper evidence on bottles. Some closures have breakaway rings on the bottom that come off when you unscrew the cap. Others utilize shrink-wrapped plastic or foil capsules around the bottleneck that must be torn off before the bottle can be opened. Metal twist off caps feature a safety button in the center that pops up once the bottle has been opened. Many liquor bottles simply have a piece of paper glued across the closure to make the sample bottle mold. Unless you choose this option, because it allows them to reuse the shipping boxes for the sale of their product. The cost of a box depends on the overall size, the quality of the cardboard, the number of colors required for printing, and the size of the area to be printed. Bulk packing helps bring down the unit shipping cost by allowing a greater number of bottles to be packed in a single container.

Is there breakage during shipment?

Given the inherently fragile nature of glass, there will almost certainly be breakage during transit, but it is usually minimal (breaks of less than 1%). Fusion is not responsible for breakage unless it is due to gross negligence on our part.

What is the process for breakage?

In the event of breakage during transit, Fusion offers a wide range of closures: metal screw cap (ROPP and aluminum), plastic screw cap, cork (synthetic or natural), etc. We can source just about any kind of closure you might need, and we can offer a range of tamper evidence functionalities.

Is it possible to order custom bottle coloration via food-safe spray coating?

Fusion offers two labeling options, including printed labels that are glued to the outside of the bottle, and ceramic heat transfer printing, a method of applying a decal to the bottle that gets baked into the surface of the glass. The cost of the label generally depends on the number of colors and the overall size, the quality of the cardboard, and the size of the area to be printed. In some situations we will charge a small minimum setup fee for extremely high quantity production runs. Of this sort only applies in situations involv-

How are the bottles packed?

Generally, bottles are either packed in reusable cardboard boxes with dividers, or they are packed in bulk on cardboard trays on pallets. Packing in boxes gives added protection to bottles during transit, and is often better for bottles that we ship prelabeled. We can offer varying degrees of cardboard quality and can have the boxes custom printed with a client’s corporate or product-specific branding. Customers frequently choose this option, because it allows them to reuse the shipping boxes for the sale of their product.

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How do we begin the design process? Do you help with the design process, and do you have a designer on staff? The best way to begin the design process is to survey the current market offerings to get a feel for the style of bottle that you want. From there, we can provide design assistance and develop drawings and specifications based on your requirements. If you have design ready, please be sure to supply us with vector art drawings to work from (e.g. AI, DWG, CDR).

In conceiving your design, please bear in mind that design elements such as sharp edges, corners and unusual shapes will add significantly to the complexity of the manufacturing process, which will in turn add to the overall production costs.

Can Fusion sterilize the bottles before shipment? No. Unless they are well sealed, there is no guarantee that the bottles would remain sterile during transit. If sterilization is required, it is better to do it near or at the bottling facility, just before filling.

Do the bottles need to be cleaned before filling? Yes. Although we often pack bottles upside down to reduce the possibility of contamination getting inside the bottles, we advise clients to clean the bottles prior to filling.

Do you help with the design process, and do you have a designer on staff? We work with a variety of vendors who proved a range of glass quality options. Average flint glass has a slight grey or greenish tint to it. This is the most common type of translucent glass. Higher quality flint glass has better clarity but is more expensive as a result. Ultra premium "super flint" has the highest quality and clarity and is thus the most expensive, but super flint is the standard glass from which bottles for premium spirits, particularly vodka, are made.

What is hot filling? Hot filling is a process used to increase the shelf life of a bottled food product. Hot filling at high temperatures can cause the glass to crack or explode due to the temperature variation between the internal and external surfaces of the bottle. Adding extremely hot liquid to a bottle causes the interior surfaces of the bottle to heat up and expand quickly, while the outer surface remains at room temperature and does not expand. The stress that results from the exposure to these extreme temperature differences can cause breakage.

What hot-fill temperature differential can be handled? When filling the bottles with hot liquid, what is the maximum suggested temperature differential between the bottle and the liquid? 42°C is usually the maximum we will guarantee. While higher temperature differentials are often manageable, we will not guarantee anything greater. If your particular hot filling process will involve a greater temperature differential, then we suggest that the bottles be preheated so as to avoid the possibility of significant breakage during filling.

What are the copyright or patent laws on reproducing a bottle? Bottles shapes can be protected with design patents. It is possible to copy a patented bottle and not violate the patent if the shape and size of the bottle are changed slightly from the existing design. Bottles can also be trade-dressed. This is similar to a trade-mark, and it means that other companies are prohibited from using the same bottle shape and label style for the same product. However, one could sell a different product in the same shape bottle and not violate applicable trade laws.

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Is there lead or any other harmful chemicals in bottles from China? The glass itself has no lead or other harmful chemicals. Upon request, Fusion can have the bottles tested at an independent test facility to confirm. The ink used for the labels is usually the maximum we will guarantee. However, upon request, Fusion can use inks with no lead or chromium.

Do you work with green companies? All of the our vendors use varying levels of recycled glass. The amount used depends on the target glass quality (recycled glass lowers quality) and the requirements of the customer. The highest quality glass will use about 30% recycled material. Lower quality glass has a maximum of about 40% recycled material.

Are bottles from China made in sweatshop factories? Fusion does not work with any factories that make use of sweatshop or child labor. Fusion’s manufacturing partners have been hand picked for an all-around quality manufacturing process - from materials to labor. There are many factories in China with dismal conditions. However, most factories whose products are exported have higher labor standards than factories that only produce for the domestic market. The best way to help bring positive change to Chinese workers is not by refusing to buy Chinese products, but by actively buying Chinese products and using purchasing power to influence labor policy.