COE 96 Kiln Glass + Cullet

Welcome to the Paul Wissmach Glass Co COE 96 Kiln Glass + Cullet Catalog!

Kiln Glass has a coefficient of expansion of 96 and has been tested for compatibility. It comes in various colors, textures, and levels of transparency. It is also available with a luminescent coating. COE 96 frit is widely available in various colors from your favorite distributor and is compatible with both types of Wissmach COE 96 Cullet.

- **Transparent Sheet** is single color transparent fusible glass.
- **Opaque Sheet** is single color opaque fusible glass.
- **Prisma™ Sheet** is a blend of 2 or 3 colors to create uniquely streaked fusible glass with different levels of transparency. The first color in the name is the more dominant color.
- **Frit** is ground up fusible glass available in all transparent and opaque fusible colors. It comes in 4 different textures or particle sizes: Coarse, Medium, Fine, and Powder.
- **Cullet** is clear glass melted in a furnace or kiln for glassblowing or casting applications.
- **Billets** are cast bars of clear, transparent, and opaque COE 96 colors used for kiln casting.

Every effort has been made to accurately reproduce the glass colors in the images on the following pages. However, some colors are more difficult to photograph than others. We encourage you to refer to your Wissmach sample set when an exact match is needed for your project.

Throughout this catalog, color swatches are labeled with their **Color Code**, then **Color Name.**

Looking for where to buy glass? Our extensive network of glass distributors is here to help. Use the searchable database at **wissmachglass.com/where-to-buy** to find trusted retailers and wholesalers around the globe ready to meet your needs. *We always recommend noting your favorite colors and requesting them by **Color Code.***

Sample Sets

Though we make every effort to photograph our glass supply as accurately as possible, nothing compares to holding it in your hand and seeing it in real life. Sample sets are an excellent and affordable way to preview and reference a broad selection of our palette before placing a larger order.

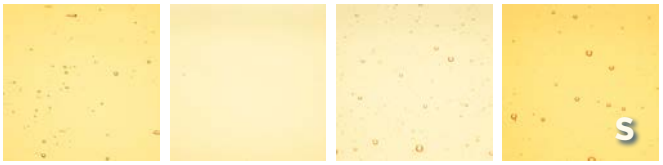
Visit **wissmachglass.com/shop** to check out our various Sample Set options.

Reactive *Potential:* By combining a color that contains copper (**Cu**) with one that contains sulfur (**S**), a chemical reaction resulting in copper-sulfide *may* occur. Different colors hold different amounts of the reactive materials. Results are not quantifiable or uniform, and will vary based on batch, process temperature, specific combination of colors, etc. Have fun experimenting!

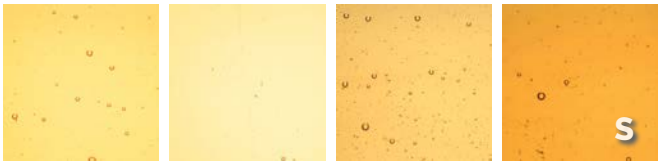
Transparent

96-01 Crystal

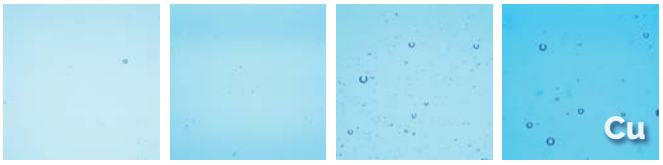
Transparent sheet glass is sold in various colors. Each color below is shown from left to right as a single layer unfired, single layer fired, color on clear fired, and double color layers fired.



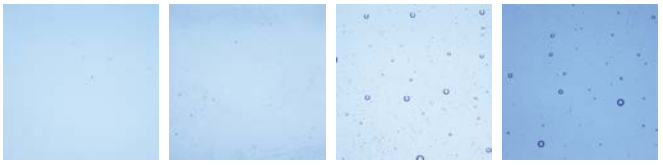
96-11 Honey Tr



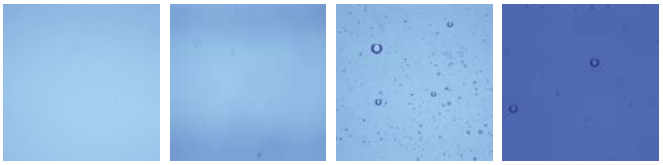
96-12 Cinnamon Tr



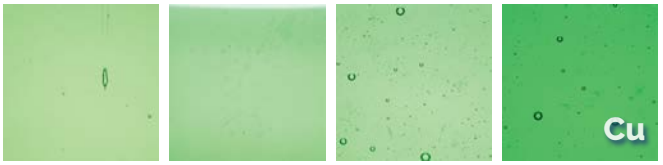
96-13 Deep Sky Blue Tr



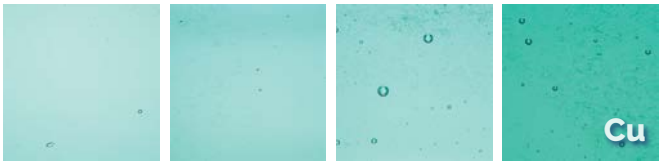
96-15 Cornflower Blue Tr



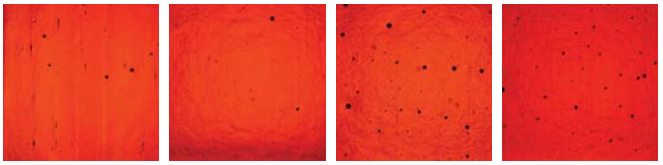
96-16 Sapphire Blue Tr



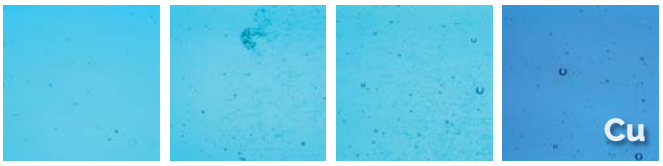
96-17 Garden Green Tr



96-18 Emerald Coast Tr

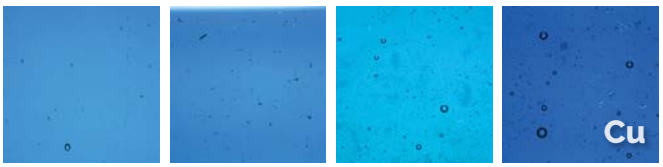


96-18 LLL Pumpkin Orange Tr



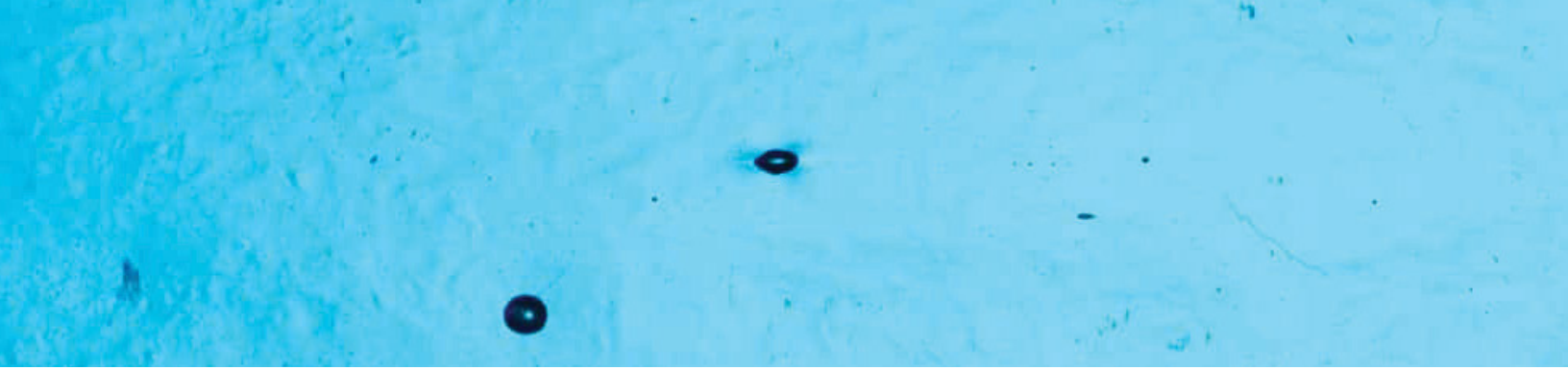
96-19 Peacock Feather Tr

96-20 Midnight Blue Tr

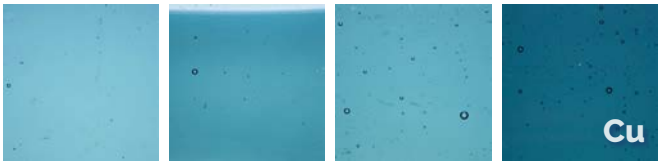


96-43 Sea Blue Tr

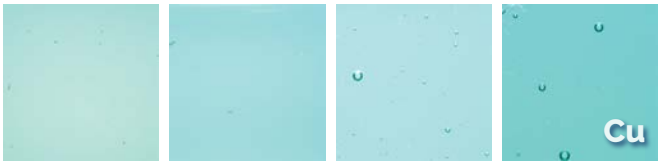
96-46 Grey Tr



Transparent continued



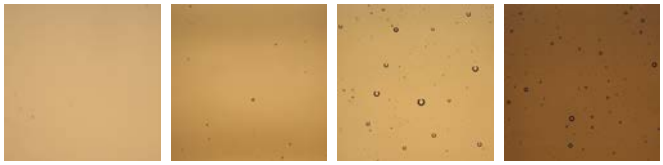
96-47 Steel Blue Tr



96-50 Turquoise Green Tr

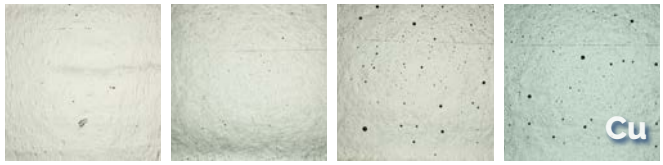
96-51 Orange Red Tr

96-52 Dark Red Tr

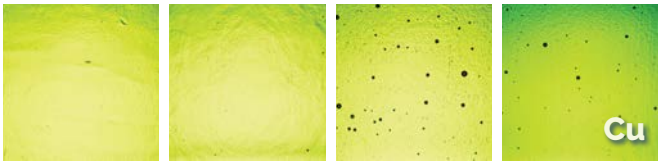


96-58 Bronze Tr

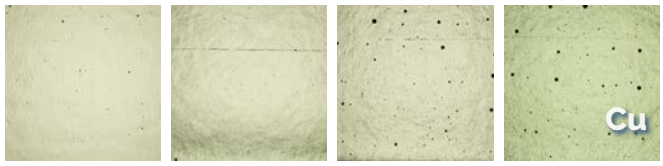
96-59 Yellow Tr



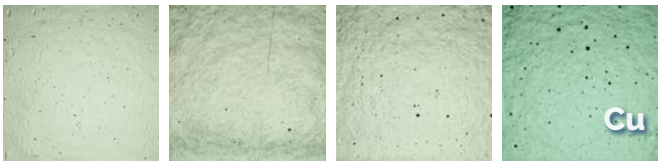
96-62 X Powder Blue Tr



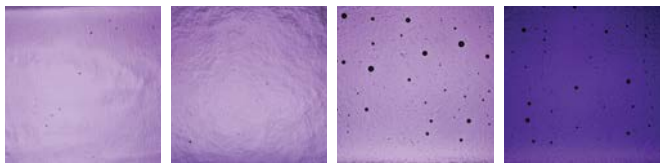
96-66 Green Tr



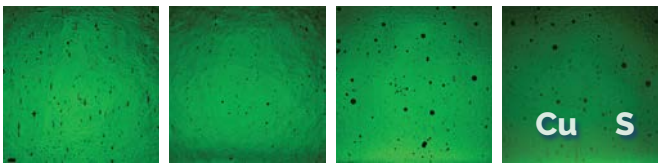
96-78 Sage Leaf Tr



96-235 Pale Aqua Tr

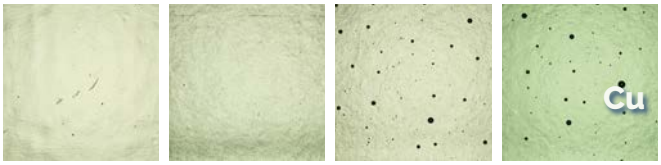


96-311 V Medium Violet Tr

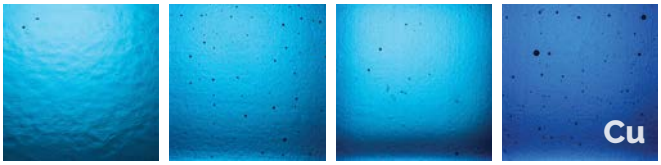


96-320 Parsley Tr

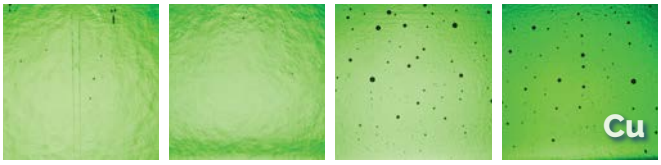
Transparent continued



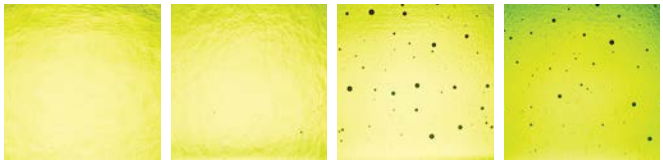
96-322 Green Tea Tr



96-341 Blue Lake Tr



96-343 Irish Green Tr



96-1146 Pear Tr

Opaque

Opaque sheet is single color opaque fusible glass. Wissmach Opaque and Prisma™ colors may strike to a deeper or denser color after firing.

96-02
Black

96-03
White

96-04
Classic Violet

96-05
Superior Blue

96-06
Pale Green

96-07
Olive Green

96-08
String of Pearls

96-09
Oyster Pearl

96-10
Gold Tone

96-14
Reactive Blue

96-40
Orange/Red

96-41
Dark Red

Opaque

Opaque continued

96-42
Orange

96-71
Sky Blue

96-120
Dusk Blue

96-121
Wisteria

96-122
Azure

96-209
Light Pumpkin

96-522
Blush

Prisma™

Prisma™ is Wissmach's blend of 2 or 3 colors to create uniquely streaked sheet glass with different levels of transparency. The first color in the name is the more dominant color. Wissmach Opaque and Prisma™ colors may strike to a deeper or denser color after firing.

96-2 D
Bright Yellow

96-21
Peacock Feather Tr/White

96-22
Peacock Feather Tr/Crystal

96-23
Cornflower Blue Tr/White

96-24
Cornflower Blue Tr/Crystal

96-25
Crystal/Black

96-26
White/Crystal

96-27
Reactive Blue/ Crystal

96-28
White/Midnight Blue Tr

Prisma™

Prisma™ continued

96-29
Midnight Blue Tr/ White

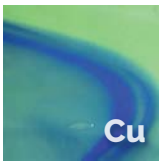
96-30
Midnight Blue Tr/ Crystal

96-31
Crystal/Classic Violet

96-32
Olive Green/ White

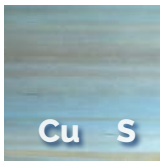
96-33
White/Olive Green

96-34
Crystal/Olive Green



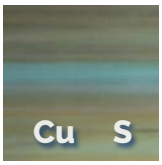
96-35
Midnight Blue Tr/ Olive Green

96-36
Black/Oyster Pearl



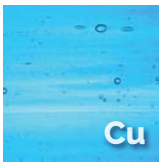
96-37
Reactive Blue/ Oyster Pearl

96-38
Reactive Blue/ Black



96-39
Oyster Pearl/ Reactive Blue

96-44
Crystal/Sea Blue Tr



96-45
Sea Blue Tr/ Crystal

96-48
White/Steel Blue Tr

96-49
Steel Blue Tr/ White

96-54
Honey Tr/White

96-55
Garden Green Tr/ White

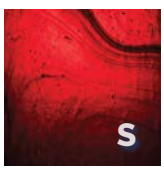
96-56
Crystal/Garden Green Tr

96-57
Crystal/White

96-60
Grey Tr/White

96-61
White/Grey Tr

96-62
Sapphire Blue Tr/ Garden Green Tr



96-63
Black/Dark Red Tr

96-64
Crystal/Dark Red Tr

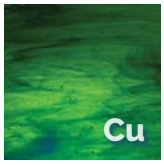
Prisma™ continued

96-65
Black/White

96-67
White/Bronze Tr

96-68
Bronze Tr/White

96-69
White/96-66 Green Tr



96-70
Midnight Blue Tr/ Pear Tr

96-72
Sky Blue/ Midnight Blue Tr

96-73
Crystal/Olive Green

96-74
Crystal/Oyster Pearl

96-75
Crystal/Reactive Blue

96-76
Sea Blue Tr/ White

96-77
Blue Lake Tr/ Crystal

96-79
White/more Steel Blue Tr than 96-48

96-80
Grey Tr/Crystal

96-145 LL
Dark Amber/ Crystal

96-WO 188
Blue Bell

96-191 D
Irish Green Tr/ White

96-191 L
White/Irish Green Tr

96-191 LL
Pixie

96-WO 191
Apple

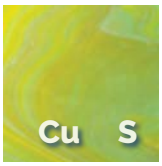
96-197 D
Deep Sea

96-197 LL
Malibu

96-197 NL
Midnight Blue Tr/ Pear Tr/White

96-197 NLL
Viridian

96-WO 197
Ocean



96-270 L
Avocado

96-WO 432
Thunderstorm

Frit

Clear and colored **frit** and **powder** are available in all solid transparent and opaque colors. Choose from 4 different textures. Frit comes in 1 lb, 4 lbs, and 20 lbs quantities. Powder comes in 1lb jars. 8oz jars of frit and powder are available exclusively from our online store. Wissmach Opaque colors may strike to a deeper or denser color after firing.

Powder Fine Medium Coarse

Note: ***Colors shown below are Coarse frit. Other textures and fused samples can be seen online.***

96-01
Crystal

96-02
Black

96-03
White

96-04
Classic Violet

96-05
Superior Blue

96-06
Pale Green

96-07
Olive Green

96-08
String of Pearls

96-09
Oyster Pearl

96-10
Gold Tone

96-11
Honey Tr

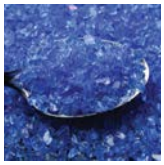
96-12
Cinnamon Tr

Frit

Frit continued

96-13
Deep Sky Blue Tr

96-14
Reactive Blue



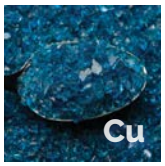
96-15
Cornflower Blue Tr

96-16
Sapphire Blue Tr

96-17
Garden Green Tr

96-18
Emerald Coast Tr

96-18 LLL
Pumpkin Orange Tr



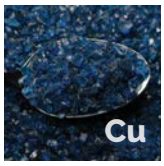
96-19
Peacock Feather Tr

96-20
Midnight Blue Tr

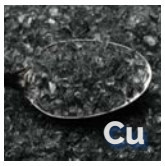
96-40
Orange/Red

96-41
Dark Red

96-42
Orange



96-43
Sea Blue Tr



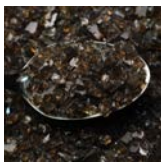
96-46
Grey Tr

96-47
Steel Blue Tr

96-50
Turquoise Green Tr

96-51
Orange/Red Tr

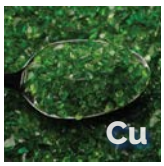
96-52
Dark Red Tr



96-58
Bronze Tr

96-59
Yellow Tr

96-62 X
Powder Blue Tr



96-66
Green Tr

96-71
Sky Blue

96-78
Sage Leaf Tr

Frit continued

96-120
Dusk Blue

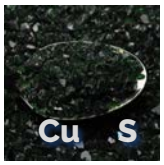
96-121
Wisteria

96-122
Azure

96-209
Light Pumpkin

96-235
Pale Aqua Tr

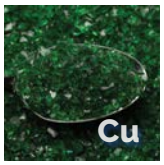
96-311 V
Medium Violet Tr



96-320
Parsley Tr

96-322
Green Tea Tr

96-341
Blue Lake Tr



96-343
Irish Green Tr

96-522
Blush

96-1146
Pear Tr

Cullet

96-01 Crystal Clear Casting Cullet and **96-01 Crystal Clear Easy Melt** are both compatible with Wissmach COE 96 Frit and Sheet Glass, have high clarity and no green or blue tint. Easy Melt is fast melting with long workability while Casting Cullet is suitable for fusing and casting projects.

Casting Billets

Wissmach Casting Billets are available in Crystal, Transparent, and Opaque colors. They are compatible with our COE 96 Kiln Glass Sheets, Frit, Powder, and Cullet for all your creative casting project ideas.

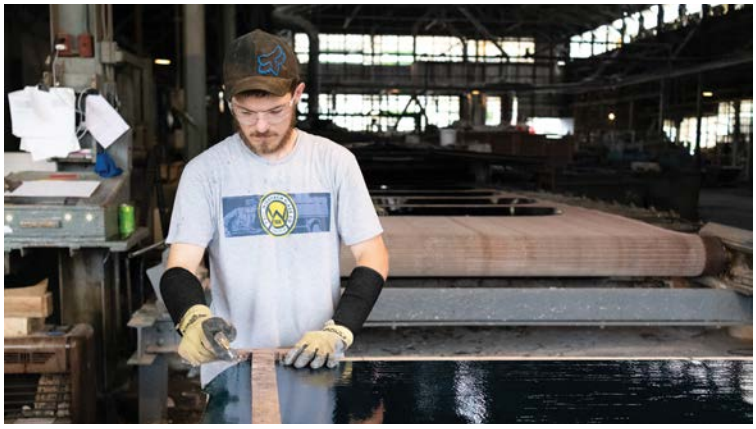
Options

Shape Cutting Service

When you order sheet glass, choose from different sizes and thicknesses. We can also pre-cut a number of shapes.

Standard sheet glass thickness is 3mm, but it can also be ordered in the following thicknesses:

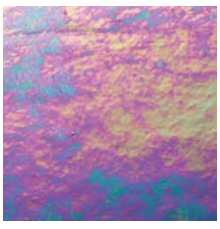
2mm
3mm
4mm
5mm
6mm

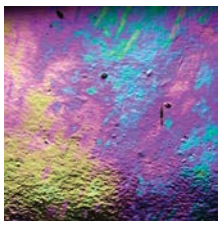


Luminescent Coating

All of our COE 96 colors are available with our Luminescent coating. Our Luminescent Kiln Glass looks similar to our Iridescent Art Glass, only fusible. You can achieve different effects when firing the coated side up, covered in Papyros™ paper or coated side down, on thin fire paper. See a small selection of colors with the luminescent coating applied below.

Visit **wissmachglass.com/tutorials/luminescent-love-tip-sheet/** to learn more about working with our luminescent glass.





Textured Sheet Glass

Any Wissmach texture can be applied to any Wissmach glass.
Visit **wissmachglass.com/glass/textures/** to see photos of available textures.

Kilnforming Considerations

There is no "one-size-fits-all" firing schedule for kilnformed glass. Even two kilns of the same manufacturer and model can give your projects different results. Kiln glass is an exciting and fun art form, and we have compiled some tips to ensure that your projects achieve the best results possible!

We recommend performing small tests with your glass when using a new firing schedule before embarking on larger projects. This practice will help you better understand how your kiln performs with Wissmach glass.

Maintain a notebook where you can keep firing schedules along with notes and results to build a library of trusted information you can use for future projects.

Before firing a project in your kiln, we recommend cleaning the top and bottom of each piece of sheet glass with a non-detergent glass cleaner and lint-free towels. Isopropyl alcohol or a mixture of 50% white vinegar to 50% distilled water should do the trick. Be careful of those edges, though!

Coat your kiln shelf and any slumping molds with kiln wash to prevent your glass from sticking. Follow the manufacturers recommendation for drying your kiln wash.

For full fuse projects, we recommend stacking two layers of 3mm Wissmach kiln glass on top of each other for best results. Results for projects that are thicker or thinner will vary.

When firing thicker projects (6mm and greater), we recommend a more conservative firing schedule. Thicker pieces require a slower initial heat and a longer annealing soak. Testing with a smaller project is encouraged before starting a larger one. And don't forget to keep those notes!

We recommend fusing and slumping in two separate firings.

There is no uniform firing schedule for slumping your project. Different molds require different process temperatures, and hold times may vary depending shape and size of your mold and kiln style.

Tack fusing can give you many design effects. We recommend starting with a temperature of 1375˚ F, but have fun exploring temperatures slightly above and below for different results.

Casting project firing schedules and process soak times will vary based on object design, size, glass type, and kiln style.

Have fun and enjoy kilnforming with Wissmach Glass!

Keep an eye on our website at **wissmachglass.com/tutorials** for more tips and project ideas.

About The Paul Wissmach Glass Co

In 2024, The Paul Wissmach Glass Company celebrated 120 years of continuous glass production! We have been making glass for artists and designers all over the world for over a century.

Wissmach Glass currently produces Art Glass Sheet, Dalle de Verre, COE 96 Kiln Sheet Glass, Frit, and Powders. COE 96 Furnace and Casting Cullet, and COE 96 Casting Billets. We're working on developing new colors and new products all the time, so keep an eye out for announcements. Folks subscribed to our email list are always *first* to learn about Wissmach news.

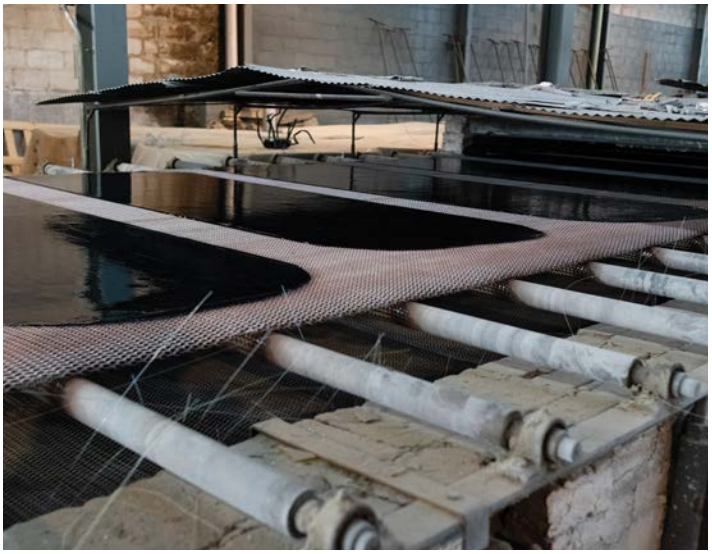
Wissmach Art Glass is ideal for Stained Glass, Mosaic, and Architectural Glass applications. It is suitable for cold processes and not tested for compatibility. It comes in an array of colors, textures, and levels of transparency. It is also available with an iridescent coating.

Wissmach Kiln Glass has a coefficient of expansion of 96 and has been tested for compatibility. It comes in various colors, textures, and levels of transparency. It is also available with a luminescent coating. COE 96 frit and powder is widely available in various colors from your favorite distributor.

Wissmach Cullet has long work times, excellent clarity, and are both compatible with COE 96 Kiln Glass products creating an incredible range of colors to work with.

Ever wonder how Wissmach develops its distinct palette of colors? Recipes over a century old of chemicals and compounds mix with limestone, soda ash, and sand and then are heated to 2,200˚F (1,200˚C) using natural gas in one of Wissmach's 13 fire brick furnaces. Unique blends of 2 to 3 colors with varying degrees of transparency are mixed by hand before being rolled out and annealed.

Wissmach Glass has been American-made in Paden City, West Virginia, since 1904.



Looking for where to buy glass?

Our extensive network of glass distributors is here to help. Use the searchable database at **wissmachglass.com/where-to-buy** to find trusted retailers and wholesalers around the globe ready to meet your needs. *We always recommend noting your favorite colors and requesting them by **Color Code**.*

Stay up to date on all the news from the factory

including announcements of sales, new colors, new product lines, giveaway opportunities, and more when you opt in to our email list at **wissmachglass.com/SignMeUp**.

Front cover:
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