

# boromax™ color borosilicate rod

**HUGE CLEARANCE SALE. Please see Price Lists for more information.**

Glass Alchemy, a company backed by many years of experience, has pulled together a team to give "boro" artists a broad spectrum of color choices in a high quality glass. This team has already produced many colors and plans to increase the palette to approximately 100, available in the near future.

Glass Alchemy's current offering includes rods that change color as heat is applied, while others stay true to their color. These rods are exciting to use and will spark your imagination as the beautiful colors come to life before your eye! They are easy to work as they stay creamy and wet with virtually little or no air. These rods are compatible with borosilicate glass, such as PYREX® 7740, KIMAX® KG33 and Schott Duran®, which we have in our stock. Rods are approximately 6mm diameter x 9 inches long (O.D. and length can vary).

Please ask about our assortment packs which consist of one rod per color or the individual sample sticks. Rods are approximately 5 inches long.

## cane properties

Glass Alchemy uses the ROY G BIV spectrum sequence to number its colors. R = red = 100 series. O = orange = 200 series...Etc.

If the name of a color ends with a number (1-5), this indicates the formula is repeated at different levels of "saturation". Saturation affects the color and workability of the glass. In general level 5 saturations are not suitable for most work. They are intended for external applications that are blown out. They should always be tested for your particular application, especially if doing inside out work or using with other level 4 or 5 colors.

Level 2-4 represents the medium-low to medium-high saturation and can be built up or thinned.

Level 1 represents colors that can be laid over another to create tints or imbedded in clear for subtle effects.

Many of our color names can be found on standard color charts, which will indicate the reflected color when used on the surface of a white marble.

### TERMS:

**BL responsive** - Black light responsive. Colors that are not "visible" until activated by an ultra-violet light.

**Carnival** - A base color that is designed to develop a full spectrum (roygbiv) of color in the torch. The base color affects the overall appearance.

**Luster** - A base color that is designed to develop a partial spectrum (ygbiv) of color in the torch. The base color affects the overall appearance of the multi-color sheen.

**Polychromatic** - Of many colors. Used here to indicate multi-color metallic and is on the surface of the glass.

**Reduce** - Some artists enjoy this effect, others don't. For example the cobalt can go gray while true green can develop brick red streaks. To mitigate this adjust the oxygen in your flame (increase it).

**Striking** - Indicates that a second "heat" brings out the color. The final color is affected by the duration and environment (oxidizing/reducing) of the second heat. Selective striking is usually a reference to flame striking one color, say ruby red, and then placing it in a furnace to complete the strike and strike other colors in the piece, such as a silver color.

**WYSIWYG** - (what you see is what you get) is used to indicate a color that is stable and not influenced by the flame adjustment (oxidizing or reducing).

**NOTE: New colors are added often, please contact us directly or visit us our website ([www.macbicnj.com](http://www.macbicnj.com)) for the latest colors and prices.**

# cane properties

Description	Cane Properties
<b>10-104 Red Crayon</b> A bright red (coral) opal. Great for inside work. Encase with 672 or 974.	Color Saturation: High Suggest encase in clear Opal Striking: wysiwyg
<b>10-106 Indian Red Crayon</b> An iron oxide red. Works well with all crayons, especially the greens.	Color Saturation: High Suggest encase in clear Striking: wysiwyg
<b>10-132 Jasper Red</b> An absolutely opal ruby with a little spice. Kiln strike for best results.	Color Saturation: High Opal Striking: striking
<b>10-135 Red Agate</b> A brown rod that strikes earthy red. Intense. Good production color. BL responsive	Color Saturation: High Translucent Opal Striking: striking
<b>10-138 Ruby Strike 4</b> A brilliant dark ruby. Very stable. Requires furnace for striking.	Color Saturation: High Translucent Striking: striking
<b>10-139 Cherrywood Strike</b> Strikes to a varnished cherrywood finish.	Color Saturation: High Translucent Striking: striking
<b>10-161 Erbium Pink</b> <b>DISCONTINUED - LIMITED STOCK AVAILABLE</b> A beautiful, crystal clear pink tint. Ideal for marbles, lenses and sculpture.	Color Saturation: Low Transparent Striking: will reduce
<b>10-163 Electric Flamingo</b> A clear rod that has hot pink fluorescence under a black light.	Color Saturation: Low Transparent Striking: clear/fluorescent
<b>10-182 Blush</b> <b>DISCONTINUED - LIMITED STOCK AVAILABLE</b> A flesh tone. Great for transitions, backgrounds. Luster is possible.	Color saturation: Low Transparent Striking: wysiwyg
<b>10-204 Orange Crayon</b> Bright opal orange. Great for inside work. Encase for open flame.	Color Saturation: High Suggest encase in clear Opal Striking: wysiwyg
<b>10-263 Atomic Kumquat</b> A clear rod that reflects acid orange under a black light within 3 feet.	Color Saturation: Low Transparent Striking: clear/fluorescent
<b>10-287 Amazon Bronze</b> A highly saturated copper silver (orangey). Annealing flame brings out metallic	Color Saturation: High Opal Striking: metallic
<b>10-301 Acid Yellow Crayon</b> A new addition to the crayon series. Opal in appearance (bright in color).	Color Saturation: High Suggest encase in clear Striking: wysiwyg
<b>10-302 Rasta Gold Crayon</b> An earthen yellow. Works well with all crayons especially the greens.	Color Saturation: High Suggest encase in clear Opal Striking: wysiwyg
<b>10-304 Yellow Crayon</b> Bright opal yellow. Great for inside work. Encase for open flame.	Color Saturation: High Suggest encase in clear Opal Striking: wysiwyg
<b>10-381 Warm Yellow</b> A bright yellow. Go to white hot, let glow fade, reheat slowly to color.	Color Saturation: Low Transparent Translucent Striking: striking
<b>10-383 Silver Strike 3</b> A popcorn-butter yellow that produces luster and purple strike.	Color Saturation: Medium Translucent Opal Striking: luster

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# cane properties continued

Description	Cane Properties
<b>10-386 Purple Luster</b> A yellow that can strike to a red purple. Will luster in the flame. BL responsive.	Color Saturation: High Translucent Opal Striking: striking
<b>10-388 Caramel Luster</b> Similar to Warm Yellow with caramel color added.	Color Saturation: Medium High Translucent Opal Striking: striking
<b>10-403 Chartreuse Crayon</b> A bright, light yellow green...sixties retro color. Encase for open flame.	Color Saturation: High Suggest encase in clear Opal Striking: wysiwyg
<b>10-406 Olive Green Crayon</b> A medium dark green. Holds its color well in stringers.	Color Saturation: High Suggest encase in clear Striking: wysiwyg
<b>10-421 Phthalo Green</b> A phthalo green that can be worked to a slight luster. A favorite.	Color Saturation: Medium High Translucent Striking: slight luster
<b>10-431 True Green*</b> A transparent, deep green. Reduction produced rich red hues. <i>* Limited stock on hand.</i>	Color Saturation: Medium Transparent Striking: will reduce
<b>10-436 Dark Emerald</b> Double the intensity of True Green, with reduction inhibitors	Color Saturation: Medium Transparent Striking: wysiwyg
<b>10-441 Alchemy Mint</b> A workable chrome green. Test for application	Color Saturation: High Opal Striking: wysiwyg
<b>10-442 Sage Green*</b> A darker version of Alchemy Mint. Holds color in stringers. <i>* Limited stock on hand.</i>	Color Saturation: High Opal Striking: wysiwyg
<b>10-444 Clover</b> A bright, deep opal green. Creamy to work with.	Color Saturation: High Opal Striking: wysiwyg
<b>10-445 Turquoise</b> A creamy, light green turquoise.	Color Saturation: High Opal Striking: wysiwyg
<b>10-446 Agua Azul</b> A creamy turquoise that develops dark blue highlights. Can darken with work.	Color Saturation: High Opal Striking: can darken
<b>10-458 Green Sparkle</b> Translucent green with a high sparkle count. Use alone or mix with other colors.	Color Saturation: Medium High Translucent Striking: sparkle
<b>10-461 Kryptonite</b> Brilliant green tint. Use for lenses, encasing colors or to cold work.	Color Saturation: Low Transparent Striking: wysiwyg
<b>10-481 Spring Luster</b> A light yellow-green with a strong luster. BL responsive.	Color Saturation: Low Transparent Striking: luster
<b>10-485 Green Carnival</b> A transparent green base color that develops red through purples.	Color Saturation: Medium Transparent Striking: striking
<b>10-487 Amazon Jewel</b> A playful blue green loaded with sparkle and silver. Outside work enhances the silver properties, inside work enhances the sparkle.	Color Saturation: High Translucent Opal Striking: psychedelic sparkle
<b>10-489 Aquatic Carnival</b> A teal base color that develops reds through purples. Reduction yields reds.	Color Saturation: Medium High Opal Striking: fluoresces striking
<b>10-510 Cobalt Lite</b> A bright, beautiful transparent blue.	Color Saturation: Low Transparent Striking: wysiwyg
<b>10-511 Cobalt 1</b> Darker than the 510 Cobalt which is a tint. This is a great bead or small sculptural color.	Color saturation: Low Transparent Striking: wysiwyg

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## cane properties continued

Description	Cane Properties
<b>10-512 Cobalt 2</b> A light cobalt. The 2 denotes the level of saturation (from 1-5).	Color Saturation: Medium Low Translucent Striking: will reduce
<b>10-514 Cobalt 4</b> A dark cobalt. Great for trailing.	Color Saturation: Medium High Translucent Striking: will reduce
<b>10-515 Cobalt 5</b> Double the intensity of Cobalt 4. Used in Mille's and for blown vessels.	Color Saturation: High Translucent Striking: will reduce
<b>10-516 Cobalt 6</b> The most saturated and darkest Cobalt on the market	Color Saturation: Very High Translucent Transparent: Test before use Striking: will reduce
<b>10-517 Royal Blue*</b> A deep blue with violet overtones. Purple under a black light. <b>* Limited stock on hand.</b>	Color Saturation: Medium High Translucent Striking: will reduce
<b>10-521 Phthalo Blue</b> A phthalo blue that can be worked to a slight luster. Very popular.	Color Saturation: Medium Translucent Striking: luster
<b>10-531 Teal</b> A transparent blue-green. Works to several colors. A top seller.	Color Saturation: Medium Low Transparent Striking: will reduce
<b>10-546 Peacock</b> A creamy, dark-blue green. Great balance with 10-446. 10-204 is the complementary color.	Color Saturation: High Opal Striking: can darken
<b>10-548 Twilight</b> A creamy, very dense, dark blue color with bright reflective surface.	Color Saturation: High Opal Striking: can darken
<b>10-555 Jupiter Sparkle</b> Deep opal blue, loaded with sparkles. Shimmery metallic undertones, creamy melt, stable to work with for any application.	Color saturation: High Opal Striking: wysiwyg
<b>10-558 Teal Sprakle</b> Blue green denser than the green sparkle. High sparkle count.	Color Saturation: Medium High Translucent Striking: sparkle
<b>10-559 Neptune Sparkle</b> An incredible metallic teal, reminiscent of metal fleck paint job on a hot-rod. Creamy, stable to work with and loaded with sparkles.	Color saturation: High Opal Striking: wysiwyg
<b>10-585 Teal Carnival</b> A transparent teal base color that develops reds through purples.	Color Saturation: Medium Transparent Striking: striking
<b>10-592 Brilliant Blue</b> Very vibrant blue. Highly reflective, appealing.	Color Saturation: Low Transparent Striking: wysiwyg
<b>10-597 Blue Luster</b> A brilliant blue color with greens, turquoise and milky yellows.	Color Saturation: Medium High Translucent Opal Striking: luster
<b>10-672 Blue Violet</b> An indigo that reflects black, transmits dioxazine purple.	Color Saturation: Medium Transparent Striking: wysiwyg
<b>10-683 Indigo Luster</b> Very dark rod that strikes with vibrant blues & yellows, subtle greens	Color Saturation: High Translucent Striking: striking
<b>10-738 Ruby Blues</b> Blue rod that will strike a dark ruby when struck in a kiln at 1075F. Selective Flame striking can give soft pinks and burgundies in the blue.	Color Saturation: Medium High Opal Striking: striking
<b>10-761 Lavender</b> <b>DISCONTINUED - LIMITED STOCK AVAILABLE</b> A clear pink. High refractive index. Great for marbles, lenses and sculpture.	Color Saturation: Low Transparent Striking: wysiwyg tint

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# cane properties continued

Description	Cane Properties
<b>10-773 Grape</b> A transparent purple reminiscent of a concord grape or grape juice. Very easy to use and smooth for coil potting. Half strength recipe of Black (Violet).	Color Saturation: Medium Transparent Striking: wysiwyg
<b>10-775 Dark Plum</b> A dark, rose violet, reminiscent of a black plum.	Color Saturation: Medium High Translucent Striking: wysiwyg
<b>10-786 Triple Passion</b> Amber rod strikes purple. Triple passion, triple fun.	Color Saturation: Medium High Translucent Striking: heavy luster
<b>10-804 Chocolate Crayon</b> A true dark brown color	Color Saturation: High Suggest encase in clear Opal Striking: wysiwyg
<b>10-860 Warm Brown</b> A warm brown. Has a red hue.	Color Saturation: Medium Transparent Striking: wysiwyg
<b>10-864 Sienna</b> A sienna brown. Has a violet hue. Produces "brilliance".	Color Saturation: Medium Low Transparent Striking: wysiwyg
<b>10-931 Black (Green)</b> A rich, easy working black. Thins to a deep, dark green.	Color Saturation: High Opal Striking: luster
<b>10-974 Black (Violet)</b> A highly reflective black. Easy to work with. Great for inside work.	Color Saturation: High Opal Striking: wysiwyg
<b>10-987 Amazon Night</b> A highly saturated copper silver (black green). Fire polish for metallic.	Color Saturation: High Opal Striking: metallic
<b>10-993 Black (Blue)</b> An intense black. Does well in a reduction flame. Great for Mille's.	Color Saturation: High Opal Striking: wysiwyg
<b>10-9995 Sno-White</b> Cool, vibrant white	Color Saturation: High Opal Striking: can wysiwyg
<b>10-4578 Rainforest Sparkle</b> A pine-green sparkle. Work in a neutral flame.	Color Saturation: High Opal Striking: wysiwyg
<b>10-4641 Paris Green Lite</b> Transparent green that will not turn red. Lightest in the Paris Green series	Color Saturation: Low Transparent Striking: wysiwyg
<b>10-4642 Paris Green 2</b> Finally a verdant green transparent that will not turn red! This color is reminiscent of antique green bottle glass, perfect as a tint or gathered thick for use in sculpture.	Color Saturation: Low-Medium Transparent Striking: wysiwyg
<b>10-4646 Paris Green 6</b> Transparent green that will not turn red. Darkest in the Paris Green Series	Color Saturation: Medium-High Transparent Striking: wysiwyg
<b>10-5186 Blue Passion</b> A creamy smooth rod that easily strikes to bright, deep purple, blue & green tones. Great luster effect under clear.	Color Saturation: High Transparent Translucent Striking: Luster
<b>10-5192 Bibidibobidibue</b> Remarkable sky blue	Color Saturation: High Opal Striking: can wysiwyg
<b>10-5195 Lapis</b> Deep, dark, dependable primary blue	Color Saturation: High Opal Striking: can wysiwyg
<b>10-5486 Peacock Chameleon</b> Creamy dark blue-green. The metallic effect derived from a reducing flame can be encased if desired.	Color Saturation: High Opal Striking: heavy luster
<b>10-5488 Twilight Chameleon</b> Creamy dark blue. Great for surface work it develops a full range of color variations as you work. Strong metallic luster.	Color Saturation: High Opal Striking: heavy luster

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# cane properties continued

Description	Cane Properties
<b>10-9749 Raven</b> Opal black reminiscent of a raven's wing. Smooth working, use a neutral flame.	Color Saturation: High Opal Striking: heavy wysiwyg
<b>10-9958 Disco Sparkle</b> The final appearance after the glass is worked is of glittering steel particles encased in clear. We suggest encasing this color with 592 Brilliant Blue for pulling intense stringers that look like blue dichro.	Color Saturation: Low-Medium Translucent Striking: wysiwyg
<b>10-9992 Portland Gray</b> A photo Gray!! A very creamy, smooth working basic duct tape gray opal glass.	Color Saturation: Medium Opal Striking: wysiwyg
<b>10-9995 Sno White</b> Cool, vibrant white	Color Saturation: High Opal Striking: wysiwyg
Low is for tints and can be built up. Good for sculptural work, not generally used in production work. High color saturations retain more of their color when applied in light applications or when blown out. Certain oxides, such as cobalt and chrome, have the necessary characteristics to provide intense colors. Other oxides provide color but their intensities are many factors lighter and can not be made denser. For these oxides it is necessary to build up layers of the color to increase the saturation.	

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# cane properties continued bicstix® color pressed glass sticks

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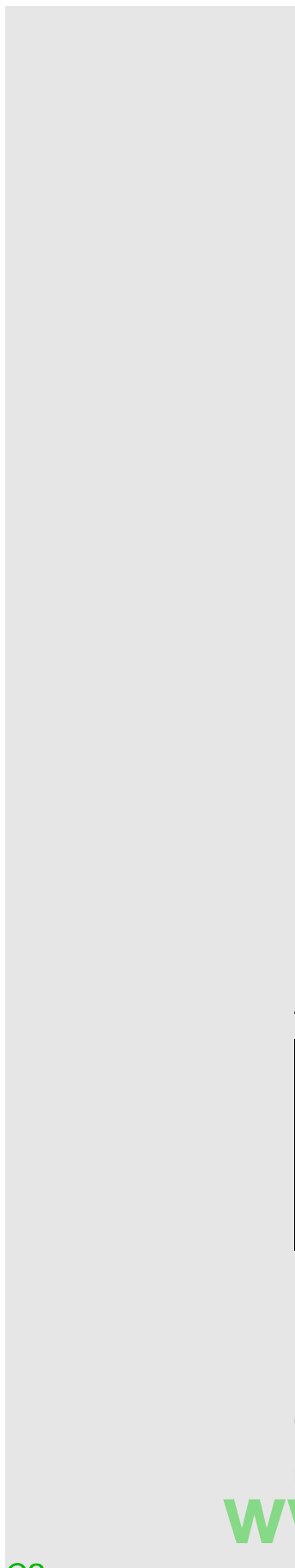
BicStix® are pressed glass and are approximately 3.75" long by 1/4" square. Small beads of glass are sprayed with various stains or oxides and then pressed in a form.

All BicStix® are opaque and work well in a neutral flame. Chromium based greens may present some compatibility issues. Please test colors first before using on extensive work. These greens will work on the inside, however a little practice and patience may be required. Lighter colors should be first encased in clear before using.

When glass is formed the metal oxides that make the color are in the matrix of the glass, this is not the case in pressed glass so, use a good ventilation system!

Part #	Color	Description
AA01	Bright White	Creamy, opaque, pure white. Does not bubble.
AA02	China Green	Medium green. Very smooth.
AA03	Storm Gray	Medium gray, tints aqua when flameworked.
AA04	Mauve Purple	Ranges from a bluish purple to a deep royal blue.
AA05	Autumn Brown	Earthy brown, tints olive green when flameworked.
AA06	Grass Green	A lighter, lime green.
AA07	Moss Green	A sparkly blue green.
AA08	Seaweed Green	A darker, ivy colored green.
AA09	Graphite Gray	A very dark gray, appears black when dotted.
AA10	Bahama Blue	Beautiful aqua blue. Real nice.
AA11	Just Peachy	Very smooth peach color. Should be encased.
AA13	Chocolate Milk	Looks like chocolate milk. Should be encased.
AA14	Baby Blue	Great pastel blue color. Should be encased.
AA15	Copper Brown	Dark brown, like an old penny.
AA16	Royal Purple	Starts purple, turns into a dark royal blue when flame worked.
AA17	Mellow Yellow	Bright, canary yellow. Should be encased.
AA18	Light Gray	Light gray color. Should be encased.
BS-AP	Assortment Pack	One length of each color - 17 total
xxxx-S	Single Stick	Add "-S" after each color number (e.g.: "AA01-S")

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**The Physical Properties of BicStix® Glass**

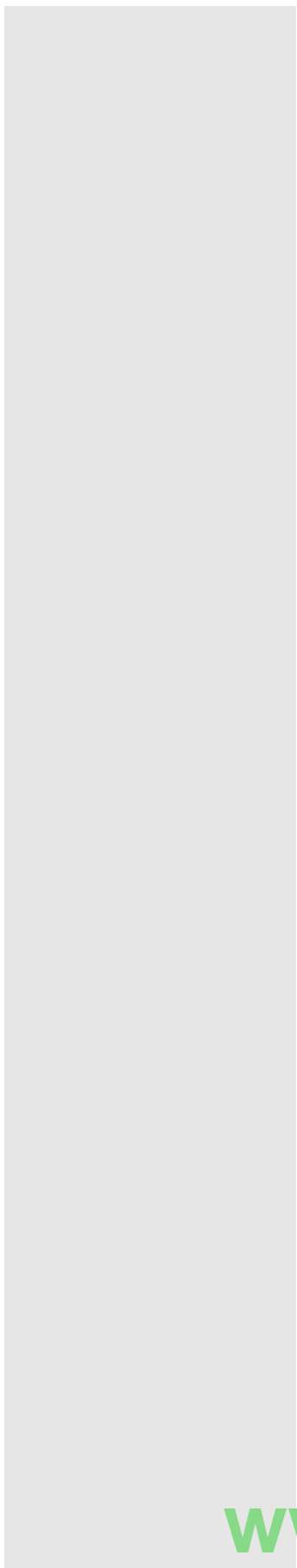
<b>Coefficient of Expansion</b>	32x10 <sup>-7</sup> /°C
<b>Strain Point</b>	513°C
<b>Annealing Point</b>	565°C
<b>Softening Point</b>	825°C
<b>Density</b>	2.33 g/cc
<b>Refractive Index</b>	1.47

**NOTE:** New colors are added often, please contact us directly or visit us our website ([www.macbicnj.com](http://www.macbicnj.com)) for the latest colors and prices.

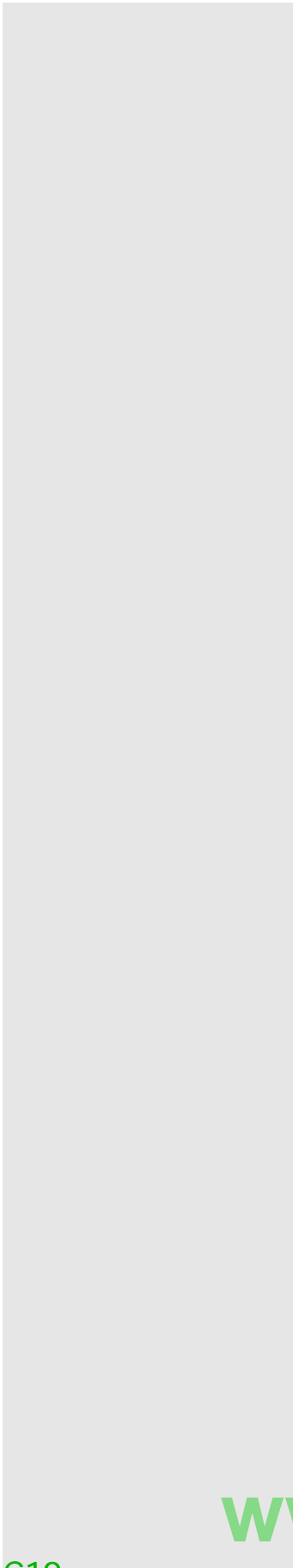
**Composition of BicStix® Glass**

<b>Element</b>	<b>Weight</b>
SiO <sub>2</sub>	60-80%
Al <sub>2</sub> O <sub>3</sub>	5-15%
B <sub>2</sub> O <sub>3</sub>	5-15%
Na <sub>2</sub> O	5-15%
K <sub>2</sub> O	<1%
CaO + MgO	<1%
BaO	<1%
CeO <sub>2</sub>	<1%
Fe <sub>2</sub> O <sub>3</sub>	<1%
As <sub>2</sub> O <sub>3</sub>	<1%
F	<1%
Cl	<1%
PbO	<1%

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