

Trautman Art Glass

COLOR BY

PAUL TRAUTMAN

www.taglass.com

SODA-LIME COLOR (SOFT GLASS): COE 104; ANNEAL at 945 FAHRENHEIT (JUNO @ 975)

DALAI LAMA: (TAG-104-01)

An amber-purple glass, similar to our Caramelo, but in a soft glass. Opaque. Most batches respond well to **deep heating** in the gather, before applying to your bead. Dalai can appear to boil when brought to white hot, but it's OK – those bubbles will disappear. Shape in a hot neutral flame, and cool until the bead blushes amber. Then **strike** in a neutral-to-oxidizing flame for beautiful effects, generally ranging from light Painted Desert or jasper (especially if not deeply heated first) to dark reddish purples (when first activated by deep heat.) Or reduce for a different, earthier look. Colors range from tans and ambers (particularly when reduced) to blues and greens, and gorgeous pinks and purples when struck hot. If you are not getting purples, you're likely not cooling the glass enough between heating and striking. Dalai encases well, and retains reactive effects under clear.

ZEUS: (TAG-104-02)

This glass appears crystal clear in the rod, but changes dramatically when **reduced, then struck**. Zeus turns amber by itself and over light colors. Over black, it's reduction film can be struck to a range from royal blue to turquoise to green. Can also be reduced further to amber brown opaques. Encases well, and the reaction often gets more opaque under clear. Try it over oranges or reds for a great electric purple! On striking gold-ruby, Zeus can make a peachy color. It's turquoise over purples.... etc etc!

BLUE BUDDHA 2: (TAG-104-03) This lovely transparent cobalt blue develops purple notes when flame worked. **Strike** to get electric blues on the surface, which further enhance the purple cast in transmitted light. Also **reduces & strikes** to a dark electric blue over black. SORRY – OUT OF STOCK

CLARITY (a.k.a. Super Clear): (TAG-104-04) The holy grail of bead makers is a perfect clear. We think we are close! Resists scumming and is optically superior to the Italian clears. Batches made before June '09 prefer a soft flame with a little more propane and a pinch less oxygen. Newer batches, Clarity 3 and Clarity 5 (stiff), like more oxygen and a more neutral flame, and they prefer to be added to the bead as they melt. Play with your torch settings if you get scum.

OXBLOOD: (TAG-104-05) A **self-striking** dark grey/brown rod that can make at least three colors when flameworked. It oxidizes to black, reduces to a grey, and, with super-heating and further reduction can produce subtle terra-cotta and brick reds. Very earthy. Also makes a good base for silvered colors.

BLACK CHERRY (Kiln-Strike Red): (TAG-104-06) This red glass **kiln-strikes** into a range from light red to super-dark antique ruby red. Can be reduced. For best results, bring red back up to a high, even heat (transparent) to "reset" the strike (especially if you have any spots from flame striking) before placing in the kiln. Kiln striking is dependent on a relationship between time and temperature: in general, the hotter the faster. But too long and/or too hot can cause livering. Rods come red; they have been pre-struck for color verification at the factory.
TO DETERMINE STRIKE TIME FOR YOUR BATCH OF BLACK CHERRY: Bring empty kiln up to your usual annealing temperature. Make a small bead, then torch it up to high even heat for "reset", and cool it enough to place in the kiln. After a half-hour or so, check it every ten minutes. When it reaches the color you want, make a note of the time. That's how long you will want to anneal your Black Cherry beads to achieve the perfect red! We suggest you make your Black Cherry beads at the end of your working session, and then run the anneal cycle long enough to kiln-strike your red at the same time.

TIBET: (TAG-104-07)

Just like the classic reactive amber/purple boro, now in 104 soft glass! A transparent version of Dalai Lama, this amber/purple glass **strikes** easily in a neutral flame, producing electric greens over black, or electric blues and purples alone. Tibet can go pinkish over ivory glass or other light colors. Solo, struck Tibet looks reddish when

held to the light. Best results come from striking in a neutral to oxidizing flame. This glass can also be reduced for a different look. Try it on Moretti copper green! Tibet does not generally require deep heating, just light striking.

CEZANNE: (TAG-104-08)

A more reactive cobalt-purple relative of “Blue Buddha.” **Reduces** easily. Gains a beautiful mirror-like finish with full reduction in an un-oxygenated flame. When reduced with oxygen, Cezanne tends to give more greens. Some batches produce streaky reactive effects. Occasionally boily; if so, up your gas and work higher in the fire.

TAXCO SILVER TURQUOISE: (TAG-104-09) TAXCO LIGHT (EXP-102808) {Pronounced TOSS-ko.}

Named for the town in Mexico renowned for combining silver and turquoise. A transparent reactive glass that produces a shiny mylar surface when **reduced** without oxygen, or gives a mottled oil-spot look when reduced lightly with some oxy in the mix, particularly over black or other dark colors. Alone, Taxco can reduce to a silvery sheen over the blue-green base. Can also reduce more heavily to white clouds with copper and terra cotta patches. However Taxco has a narrow working range - too hot and reduction burns off, but too cool and it won't stick. Best reduction happens at a barely-orange glow. If it's a tad boily, turn up the gas & work higher in the fire.

JUNO: (TAG-104-10) {*Note: Does not work with every brand of clear104 glass; we recommend TAG Clarity for encasement of Juno. She also requires a higher anneal (975 to 980 F) and slightly longer soak time.*}

The wife of Zeus, Juno is pretty and pink; a **reducing** glass that **also strikes**. When reduced alone, she can go amber, and can develop a metallic sheen. But, like Zeus, Juno's reduction haze can be intensified, brightened and made more opaque by striking it. Her reduction haze ranges from greenish to bluish to pink/purplish, depending on the batch and the background color. The reduction haze is enhanced with encasement. Juno also strikes in a neutral to oxidizing flame, with an unusual yellow glow. For an interesting effect, try simply striking Juno on a base of Moretti dark ivory, for a range of colors from pink, purple, periwinkle and even coppery hues! However, overworking Juno can burn out her color. In general, “3 strikes and you're out.” Also, applying Juno cooler gives more purples over ivory, while heating the rod more in advance tends to produce more copper colors.

GOLDEN EMERALD: (TAG-104-11)

This is a pale green transparent **reducing** glass, similar to our Taxco. Golden Emerald's effects also differ over a light or dark base glass, and by how much oxygen you use in your reduction flame. When reduced with little or no oxygen, by itself, the Golden Emerald takes on a golden metallic sheen over its transparent golden green. When reduced with some oxygen, on a dark base glass, Golden Emerald produces strong metallic oil-spot colors of purple, blue, electric green, and more. It is difficult to encase the reduction on Taxco and Golden Emerald.

LAKE GENEVA: (TAG-104-12)

A pretty transparent medium blue **reducer**, Lake Geneva can make super-metallic effects when reduced with little or no oxygen, and a thicker, more opaque reduction film when reduced with some oxygen in the mix. In general, the Lake Geneva makes blues, greens and some purples when reduced. The reduction can be made more opaque by ‘striking’ it. The reduction can also be encased for Mother of Pearl effects.

MONTREUX: (TAG-104-13) {Pronounced MON-tro, named for a town on the shores of Lake Geneva, Switzerland.}

A lovely transparent medium purple **reducer**, Montreux can make super-metallic effects when reduced with little or no oxygen, and a thicker, more opaque reduction film when reduced with some oxygen in the mix. The reduction can be made more opaque by ‘striking’ it. The reduction can also be encased for MOP effects. In general, Montreux's reduction colors range from blues and greens to purples, but the base color can also vary from amethyst to light raisin to medium ink purple. Inky blue-purple is now standard for Montreux.

DEEP PURPLE: (TAG-104-14)

A luscious deep dark transparent purple, Deep Purple **reduces** with super-metallic effects with little or no oxygen, and gains a thicker, more opaque reduction film when reduced with some oxygen in the mix. The reduction can be made more opaque by ‘striking’ it, and it can also be encased, trapping a beautiful MOP. Deep Purple generally reduces with blues and greens, but can also create purples, pinks and even bronze-like tones in the metallic sheen. The density of the color also lends itself well to thin applications, including stringers.

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WORKING TIPS FOR SOME OF OUR EXP COLORS:

TAG-104-EXP-GREEN DALAI:

Like the regular Dalai Lama, the Green Dalai is an opaque **striking** glass. It also likes the heat! For best results, try a couple of deep heatings, followed by a series of light strikes to the surface. This treatment generally produces streaky striped effects, with greens, blues, and hints of yellow and purple. Less heat generally produces a more uniform color. Encases well. Batches range from lighter to darker green, and more and less opaque. A few batches can reduce with wispy blues as well as strike!

TAG-104-EXP-010908 JD MIX: *Now only available in Seconds. Cannot be reproduced.*

A lovely transparent cobalt-blue blend that came from mixing together two experimental colors that turned out to be misbehaving little brats. Together, though, they play beautifully! This **reducing** glass creates strong oil slick metallics on the surface when reduced, and can be further reduced to wispy mother-of-pearl effects. It also reacts nicely on a base of ivory glass. This color cannot be reproduced.

TAG-104-EXP-080508 CASSIS:

A super-dark transparent brownish-purple raisin color, Cassis (or Currant) **reduces** with super-metallic effects with little or no oxygen, and gains a thicker, more opaque reduction film when reduced with some oxygen in the mix. The reduction can be made more opaque by 'striking' it, and it can also be encased. Like many of these silvered glasses, Cassis generally reduces with blues and greens, but can also create purples and even bronze-like tones in the metallic sheen. The density of the color also lends itself well to thin applications, including stringers.

TAG-104-EXP-120508 FIRE OPAL: *Out of stock.*

A milky grey rod, this one really likes the HEAT! Fire Opal is a **striking** glass that gives wispy opalescent blues and greens when used over black and other dark colors, but can give a range of reddish purples when used over transparent or lighter colors. In many uses TAG Fire Opal looks like regular opal with flashes of blue and green, but it can look very much like Mexican Fire Opal if it is subjected to repeated deep heating, followed by quick cooling cycles (Paul gets this effect by treating it like boro.) Try heating the end of the rod until white hot, wrapping your bead, deep heating on the mandrel, marvering into shape, cooling, and then striking. Some bright effects come from striking right ON the little white candles of your neutral torch flame, until the glass almost appears to boil!

TAG-104-EXP-040609 & 040709 (etc) JELLY OPAL:

A milky grey color that really likes it hot. Jelly Opal is a **striking** glass that gives wispy opalescent blues and greens when used over black and other dark colors, but can give a range of ambers, pinks and purples when used over transparent or lighter colors. #040609 is particularly light and shows up best over darker colors, especially with cycles of striking and reducing. This glass generally responds well to repeated deep heating, followed by long cooling cycles. Benefits from rapid cooling, too, with brass tools. Try heating the gather until white hot, wrapping your bead, deep heating again on the mandrel, marvering into shape, cooling, and then striking. Like our Fire Opal, you can get different effects from striking right on the candles of your torch.

TAG-104-EXP-022009 JUPITER:

Jupiter is an opaque **striking** glass that produces a wider variety of colors than our Dalai Lama. Heat this one deeply at first and let cool until no longer glowing. This may take longer than you expect! Then strike in a neutral flame. Lighter rods in the batch should strike to turquoise and purple; darker rods in the batch can produce slate blues and dark reddish purples. Try washing parts of the bead with high heat to change the colors on parts of

the bead! Reducing Jupiter produces caramel tans with terra cotta patches. You can also 'reset' Jupiter with another cycle of deep heating.

TAG-104-EXP-022309 JUPITER 2, Dark & TAG EXP-040809 JUPITER 3, Light:

These batches are similar to the above Jupiter, but can easily over-strike. Jupiter 2 looks similar to the darker rods of the first batch, and tends to go mauve purple when over-struck. It also withstands high heat better than Jupiter 3, the light version. Jupiter 3 is best suited to quick work, in which you heat the gather deeply, make the bead and keep it hot while working and shaping. Don't cool this one for **striking** until you are nearly done with the bead, as 1st strike will give you the best purple colors on Jupiter 3.

TAG-104-EXP-#030509, #070609, etc. AQUIS:

This transparent sapphire blue rod **reduces** to a shifting blue/green, with an oil-slick sheen. Can produce a bright mirror-like finish when heavily reduced with no oxygen (the "dragon's breath" method, done while the bead is still slightly glowing), or can create very subtle shifts of color when lightly reduced. Due to a high silver content, Aquis can over-reduce to clouds or a muddy tan. But most over reduction can be 'cleaned up' with a light brush of a neutral flame. Try alternating between an oxy rich neutral and a reducing flame with a 3" candle. The mirror reduction may be carefully encased for a *light* MOP finish, but Aquis' reduction sheen is not particularly encasable OR flame durable.

TAG-104-EXP-#022409, #071609, #071709 MARS:

Mars is a very unusual color. The opaque rods of #022409 can strike into streaky corals, reds and terra cotta colors; the more transparent rods of Mars #022409 strike nearly black. However, if you encase the dark struck Mars, *and put that in the kiln glowing red hot*, it will strike into a very dark reddish burgundy purple! This only seems to work if the beads are parked glowing red; hotter and longer annealing did not make a difference in the final color, but the temperature of the bead going into the kiln apparently does. To lighten the effect, use a thin layer of Mars over clear, then encase.

This glass also reacts intensely and immediately with TAG's silver-rich Zeus, with no reduction needed. Twists of Mars and Zeus are very reactive, and dots of Zeus over Mars give immediate color, generally a medium blue to pale celadon green from the Zeus and a red burgundy from the Mars. However, overworking this combination will cause it to over-strike to a beige/tan.

Mars #071609 and #071709 appear to have more streaks of color when struck. Beads that look to be dark, streaked with blue-greenish colors going into the kiln, generally come out reddish-purplish, with bluer streaks. This glass, in general, **kiln-strikes** to the red-purple colors from a transparent greenish/brownish bead. This batch also reacts strongly to other silver-rich glasses, like Zeus, Juno, etc.

TAG-104-EXP SILVER FIR:

A dark forest green transparent **reducing** glass. Reduction ranges from blue to silver. Occasional.

TAG-104-EXP #091109 MONTUNO (trans, opaque and in-between):

Montuno is an unusual and un-reproducible color. Cobalt blue transparent rods **reduce** to a beautiful metallic blue, with an encasable reduction film. Rods that have a thin skin **strike** a streaky mix of opaque blue over the transparent reducing color. Rods with an opaque blue-turquoise look (rare) make opaque blue streaky beads that can strike into hints of light purple, **and reduce** to a pretty green.

TAG-104-EXP BLUE DALAI VARIATIONS (EXP #061909, #062309, #062409)

Striking rods that range from blue to blue green to indigo. Deeply heat the gather and cool until you see amber blush on the surface. That is first strike. Colors range from Dalai-like blues and purples to wispy pastel rainbow effects. Some versions 'pop' their colors when struck under an encasement of clear.

TAG-104-EXP#100109 DUBLIN BAY:

An experimental **striking** glass. Blueish-greenish rods that strike to lots of pastel Dalai-like colors, blues and purples, but also into pinks and greens.