Get Reactive in System 96!

Uroboros has created two unique glass formulas for System 96 that are designed to create an interface color, or a 'reaction', when melted against certain other colors. This occurs when ions from the two adjacent glasses migrate and mingle when the glasses become hot and fluid. Given the right glass chemistry, the comingled ions form a very thin colored line, or 'reaction'. Since our formulas react to create a noticeably reddish hue we named them Red Reactives: as in Red Reactive Transparent, and Red Reactive Opal.

The primary ingredient needed in a glass to generate a reaction color with our Reactive glass is Copper. Copper is present in many blue and blue-green glass colors, but in some cases in too low a concentration to create a noticeable reaction.

For simplicity, all System 96 colors have been graded for their potential to react into three categories: Strong, Medium, and Mild. See them all listed in the chart on the back of this page. You will find that the intensity of the reaction color will get stronger with longer, hotter, or repeat firings. This is because the copper ions have more time to mingle with their friendly reactive partners in the adjacent glass. The chart rankings are based on a typical single firing cycle. You could get a Medium reaction from a color graded as Mild by firing it hotter, or firing multiple times.

Uroboros' System 96 Red Reactive Transparent and Opal formulas are available in all forms:
- Sheet
- Frit
- Noodles
- Stringer
- Rods –

Available at SunshineGlass.com

REACTIVE GLASSES

Sulfur Bearing Glasses

Glasses may react with Copper and Lead bearing glasses as well as Silver

| Product	Name	Sulfur Content
111SF	Dark Amber	High
161SF	Yellow	High
110.4SF	Light Amber	Medium
110.8SF	Medium Amber	Medium
61-1108-96	Medium Amber, Thin	Medium
171SF	Orange	Medium
226-72SF	Lemongrass Opal	Medium
260-72SF	Yellow Opal	Medium
267-72SF	Sunflower Opal	Medium
60-355-96	Marigold Opal	Medium
60-2502-96	Red Opal	Medium
61-2502-96	Red Opal, Thin	Medium
60-2702-96	Orange Opal	Medium
60-602-96	Flame Opal	Medium
60-611-96	Light Cherry	Medium
60-615-96	Lipstick Red Opal	Medium
60-618-96	Black Cherry Opal	Medium
60-612-96	Grenadine	Medium
61-358-86	Warm Yellow, Thin	Medium
61-611-96	Lt Cherry Red, Thin	Medium
110.2SF	Pale Amber	Low
151SF	Cherry Red	Low
151SFL	Cherry Red, Thin	Low
152SF	Ruby Red	Low
170.2SF	Tangerine	Low
211-74SF	Chestnut Opal	Low
215-72SF	Terra Cotta Opal	Low
271-71SF	Persimmon Opal	Low
60-906-96	Straw	Low
B2-906-96	Casting Billets, Straw	Low
CR-906-96	Casting Rocks, Straw	Low

Closeup of the subtle but lovely reaction between Amber and Aqua Transparents

Copper Bearing Glasses

Glasses may react with Sulfur bearing glasses and Reactive glasses

Product	Name	Copper Content
61-700-96	Dark Green, Thin	High
136SF	Dark Blue	High
220-76SF	Dark Green Opal	High
230-76SF	Dark Blue Opal	High
233-74SF	Turquoise Blue Opal	High
233-75SF	Mariner Blue Opal	High
523-2SF	Teal	High
532-1SF	Caribbean Blue	High
533-1SF	Sky Blue	High
533-2SF	Blue Topaz	High
533-3SF	Deep Aqua	High
123SF	Medium Green	Medium
125SF	Dark Green	Medium
132SF	Light Blue	Medium
223-72SF	Turquoise Green Opal	Medium
238-72SF	Alpine Blue Opal	Medium
523-8SF	Hunter Green	Medium
538-2SF	Light Steel	Medium
60-421-96	Riviera Blue Opal	Medium
60-726-96	Apple Jade Opal	Medium
61-726-96	Apple Jade Opal, Thin	Medium
60-755-96	Fern Green Opal	Medium
61-755-96	Fern Green Opal, Thin	Medium
61-402-96	Aqua, Thin	Medium
B2-402-96	Casting Billets, Aqua	Medium
CR-402-96	Casting Rocks, Aqua	Medium
121SF	Light Green	Low
130.8SF	Pale Blue	Low
222-72SF	Pastel Green Opal	Low
226-74SF	Amazon Green Opal	Low
528-1SF	Seagreen	Low
538-4SF	Steel Blue	Low
60-078-96	Payne's Gray Opal	Low
60-079-96	Chambray Opal	Low
60-774-96	Ming Green	Low
61-774-96	Ming Green, Thin	Low
B2-774-96	Casting Billets, Ming Green	Low
CR-774-96	Casting Rocks, Ming Green	Low

Plate by Patty Gray beautifully illustrates the reaction of Turquoise Frit on Red Reactive Opal
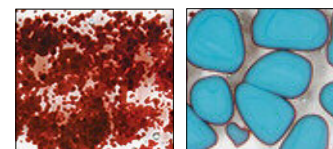
Fine Frit   *Coarse Frit*

Size matters: *examples of Fine and Coarse Turquoise Blue Opal Frit fused on Red Reactive Clear sheet glass.*

Reactive Glasses

Uncolored glasses that may react with Copper bearing glasses

Products	Name	Content
60-003-96	Red Reactive Transparent	NA
60-045-96	Red Reactive Opal	NA

Lead Bearing Glasses

Glasses may react with Sulfur bearing glasses

Product	Name	Content
60-103-96	Deep Gold Pink	High

For more information about System 96 products, please visit
www.System96.com

Red Reactive Transparent Color Chart
FRIT

Uroboros Frit Product Numbers	125-96 Dark Green	1308-96 Pale Blue	132-96 Light Blue	136-96 Dark Blue	2206-96 Dark Green Opal	2232-96 Turquoise Green Opal	2306-96 Dark Blue Opal	2334-96 Turquoise Blue Opal	2335-96 Mariner Blue Opal	2382-96 Alpine Blue Opal	421-96 Riviera Blue Opal	5232-96 Teal	5238-96 Hunter Green	5331-96 Sky Blue	5333-96 Deep Aqua	774-96 Ming Green

Frit full fused to Clear (60-00-96) to show color before reaction.

F1 Powder																
F2 Fine																
F3 Medium																
F5 Coarse																
F7 Mosaic																

Frit in all 5 sizes, full fused to a sheet of Red Reactive Transparent (60-003-96)

Red Reactive Opal Color Chart
FRIT

System 96® Uroboros Glass

Uroboros Frit Product Numbers	125-96 Dark Green	1308-96 Pale Blue	132-96 Light Blue	136-96 Dark Blue	2206-96 Dark Green Opal	2232-96 Turquoise Green Opal	2306-96 Dark Blue Opal	2334-96 Turquoise Blue Opal	2335-96 Mariner Blue Opal	2382-96 Alpine Blue Opal	421-96 Riviera Blue Opal	5232-96 Teal	5238-96 Hunter Green	5331-96 Sky Blue	5333-96 Deep Aqua	774-96 Ming Green

Frit full fused to White Opal (60-05-96) to show color before reaction.

| F1 Powder |
| F2 Fine |
| F3 Medium |
| F5 Coarse |
| F7 Mosaic |

Frit in all 5 sizes, full fused to a sheet of Red Reactive Opal (60-045-96)

NON-REACTIVE GLASSES

Do not Contain Copper, Sulfur or Lead	
Glasses will not react	
Product	**Name**
1009AVSF	Black Aventurine
1009SF	Black
1009SFL	Black, Thin
100SF-ICE	Icicle Clear
100SFL	Clear, Thin
100SFL-ICE	Icicle Clear, Thin
100SFL-XTL	Crystal Clear, Thin
100SFS	Clear
100SFXTL	Crystal Clear
128AVSF	Green Aventurine
138AVSF	Blue Aventurine
140.8SF	Pale Purple
142SF	Light Purple
146SF	Dark Purple
180.8SF	Pale Gray
200SF	White Opal
200SFL	White Opal, Thin
209SF	Crystal Opal
210-71SF	Ivory Opal
210-72SF	Almond Opal
211-76SF	Chocolate Opal
216-71SF	Khaki Opal
218-71SF	Stone Opal
228-72SF	Celadon Green Opal

Do not Contain Copper, Sulfur or Lead	
Glasses will not react	
Product	**Name**
230-72SF	Medium Blue Opal
240-72SF	Mauve Opal
240-74SF	Lilac Opal
280-72SF	Pewter Opal
280-76SF	Charcoal Opal
291-61SF	Champagne Opal
518-1SF	Bronze
518-2SF	Antique Bronze
526-2SF	Moss Green
528-2SF	Light Olive
528-4SF	Olive
534-2SF	Violet
538-6SF	Navy
543-1SF	Light Grape
543-2SF	Grape
591-1SF	Champagne
60-070-96	Cloud Opal
60-404-96	Sapphire
60-424-96	Cobalt Blue
60-520-96	Plum Opal
60-57-96	Walnut
60-707-96	Citron
60-7312-96	Lime
60-782-96	Olive Opal

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