

MACHINE ROLLED OPALESCENT

SPECTRUM GLASS

Spectrum Glass manufactures specialty sheet glass for lighting, architecture, and stained glass arts. With a unique combination of traditional handcrafted methods and modern technology, Spectrum produces a modern art glass that has set new standards for quality and consistency. Sheet sizes are 24" x 48", Water glass is 21" x 48". Closed cases contain approx. 464 sq. ft. Or 58 sheets. Baroque glass is a modern version of mouth-blown "reamy" glass. By slowly stirring together glasses of carefully mismatched compositions, a "conflict" is created that manifests in a dimensional swirling texture and vivid color contrast. Wispy opalescents are composed of 1/2 cathedral glass and about 1/2 opaque white glass. The white opal is hand-ladled into a moving stream of cathedral color. The two glasses are then stirred together, by hand, just before the sheet is formed. In the finished sheet, wisps of opal display as both surface variegation and internal shadowing. Generating reflection and depth. Near opposites of their wispy cousins, Semi translucent opalescents are primary opal glass eliminating the perception of images through the sheet. Because of their relative opacity, these glasses are highly reflective in nature. With backlighting, natural or artificial, they reveal a captivating luminescent glow. Translucent opals are about 50-50 cathedral color and white opal glass. The larger proportion of opaque white reduces light transmission and increases surface reflection. Some translucent involve multiple cathedral colors with white, and others use colored opals to achieve their individual character. Artique is a re-creation of the character of mouth-blown antique glass. The texture is scribed into the surface of the glass while the sheet is still extremely pliable and hot. Waterglass is a natural surface created by stretching the sheet while it is still hot and in a pliable state. The result is gentle, rolling waves that resemble the surface of a lake or stream. The stretching process also renders a highly pristine surface and a slightly narrower sheet. Cathedral colors are single color glasses, with very slight, irregular surface texture. Degree of light transmission is directly related to the density of color; clear glass is highly transparent, black glass is completely opaque. Codes: A=Artique, W=Waterglass, S=Seedy, I=Iridized, G=Granite, H=Hammered, R=Ripple, GG= Ice Crystal, F=Fusible

ARTIQUE

CODE	ITEM	GROUP
S-100A	Spectrum Clear Artique	E
S-140-8A	Pale Purple Artique	F
S-152A	Ruby Red Artique	K
S-180-8A	Pale Grey Artique	F

CATHEDRAL

CODE	ITEM	GROUP
S-1009S	Black	C
S-100G	Clear Granite	A
S-100GG	Clear Ice Crystal	A
S-100GGI	Clear Ice Crystal Irid	AI
S-100-GI	Clear Granite Irid	AI
S-100H	Clear Hammered	A
S-100HS	Clear Hammered solid	A
S-100R	Ripple	D
S-100SFS	Clear Smooth	C
S-100SE	Clear Seedy	AA
S-110-2S	Pale Amber	B
S-121S	Light Green	B

S-123H	Medium Green	B
S-123S	Medium Green	B
S-125S	Dark Green	C
S-130-8S	Pale Blue	B
S-132S	Light Blue	B
S-134H	Medium Blue	B
S-134S	Medium Blue	C
S-136S	Dark Blue	C
S-140-8SF	Pale Purple	B+SF
S-142S	Light Purple Cathedral	B
S-151S	Cherry Red Cathedral	H
S-152G	Ruby Red Cathedral Granite	H
S-152S	Ruby Red Cathedral	H
S-161S	Yellow Cathedral	H
S-171S	Light Orange Cathedral	H
S-533-1S	Sky Blue	B
S-591-1SF	Pink Champagne	E+SF
S-1009SI	Black Smooth Irid	CI
S-100HI	Clear Hammered Irid	AI
S-100RI	Clear Ripple Irid	DI
S-200SI	Solid Wht Opal Irid	BI

TRANSLUCENT

CODE	ITEM	GROUP
S-307S	Clear & White Translucent	AA
S-308S	Med.Clr & White Translucent	A
S-317-02S	Pale Amber & White Transl	A
S-317-1S	Light Amber & Wht Transl	A
S-317-2S	Med Amber & Wht Translucent	A
S-317-6S	Dark Amber & White Transl	E
S-318-05S	Light Amber Lamp Mix Transl	A
S-319-2S	Medium Amber & White Wispy	A
S-327-2S	Light Green & White Transl	A
S-327-6S	Dark Green & White Transl	B
S-337-1S	Pale Blue & White Transl	A
S-337-2S	Light Blue & White Transl	A
S-337-6S	Dark Blue & White Transl	B
S-347-1S	Pale Purple & White Transl	A
S-357-1S	Red & White Translucent	H
S-367-1S	Yellow & White Translucent	H
S-387-2S	Gray & White Translucent	A
S-411-15G	Brown/gold Streakyrootbeer	A
S-411-15S	Brown/gold Streakyrootbeer	A
S-621-7S	Amber Green & Wht Transl	A
S-622-7S	Forest Green Opal Transl	A
S-623-7S	White & Dark Green & Blue	A
S-633-7S	Sky Blue, Dark Blue & White	A
S-641-7S	Purple Amber & White Transl	A
S-818-72S	Rosy Brown & White Transl	A
S-823-72S	Teal Green & White Transl	A
S-826-71S	Lime Green & White Transl	A
S-828-72S	Seafoam Green & White	A
S-838-72S	Colonial Blue & White trans	A
S-838-74S	Steel Blue & White Transl	A
S-307SI	White & Clear Transl Irid	AAI
S-317-02SI	Pale Amber & White Trans.IR	AI
S-337-1SI	Pale Blue & Wht Transl Irid	AI
S-347-1SI	Pale Purple Wht Transl Irid	AI
S-387-2SI	Gray & White Transl Irid	AI

SEMI TRANSLUCENT

CODE	ITEM	GROUP
S-200S	Solid White Opal	B
S-230-76SE	Opal Cobalt Blue	D
S-223-76SE	Opal Dark Green	D
S-291-61S	Champagne Opal Pastel	F
S-305S	White & Clear	AA
S-315-02S	White & Pale Amber	AA
S-315-1G	White & Light Amber	AA
S-315-1S	White & Light Amber	AA
S-315-2S	White & Medium Amber	AA
S-315-6S	White & Dark Amber	A
S-325-2S	White & Light Green	A
S-325-6S	Wht & Dk Green	A

S-335-2S	White & Light Blue	A
S-335-6S	White & Dark Blue	A
S-345-2S	White & Light Purple	A
S-365-1S	White & Yellow	E
S-375-1S	White & Orange	E
S-385-2S	White & Light Grey	A
S-395-1S	White & Pink	I
S-675-1S	White & Orange-Red	E
S-818-52S	White & Rosy Brown	A
S-828-52S	White & Seafoam Green	A
S-833-51S	White & Sky Blue	A
S-838-52S	White & Colonial Blue	A
S-891-61S	Pink Champagne Opal	A
S-305SI	White & Clear Irid	AAI
S-395-1SI	Gold Pink & White Irid	II
S-891-61SI	Pink Champagne Opal Irid	AI

WATER GLASS

CODE	ITEM	GROUP
S-1009W	Black	D
S-100W	Clear	D
S-110-2W	Pale Amber	D
S-110-8W	Light Amber	D
S-121W	Light Green	D
S-123W	Medium Green	D
S-125W	Dark Green	D
S-130-8W	Pale Blue	D
S-132W	Light Blue	D
S-134W	Medium Blue	D
S-136W	Dark Blue	D
S-140-8W	Pale Purple Water Glass	D
S-142W	Light Purple	D
S-146W	Deep Purple	D
S-151W	Cherry Red	H
S-152W	Ruby Red	H
S-161W	Yellow	H
S-171W	Orange	H
S-180-8W	Pale Gray	D
S-200-91W	Wht Soft Waterglass	F
S-291-91W	Champagne Soft Waterglass	F
S-423-1W	Pale Grn/Aqua Blue Watergl	D
S-523-2W	Teal Green	D
S-523-8W	Emerald Green Water Glass	D
S-528-1W	Sea Green	D
S-533-1W	Sky Blue	D
S-538-4W	Steel Blue	D
S-543-2W	Grape	D
S-591-1W	Pink Champagne	F
S-1009WI	Black Waterglass Irid	DI
S-100WI	Clear Waterglass Irid	DI
S-200-91WI	White Soft Waterglass Irid	FI

SPECTRUM GLASS (continued)

WISPY OPALESCENT

CODE	ITEM	GROUP
S-309S	Clear & White Wispy	A
S-319-02S	Pale Amber & White Wispy	A
S-319-1S	Light Amber & White Wispy	A
S-319-6S	Dark Amber & White Wispy	E
S-329-1S	Pale Green & White Wispy	A
S-329-2S	Light Green & White Wispy	A
S-329-6S	Dark Green & White Wispy	B
S-339-1S	Pale Blue & White Wispy	A
S-339-2S	Light Blue & White Wispy	A
S-339-6S	Dark Blue & White Wispy	B
S-349-1S	Pale Purple & White Wispy	A
S-349-2S	Light Purple & White Wispy	A
S-349-6S	Dark Purple & White Wispy	A
S-359-1S	Red & Wht Wispy	H
S-369-1S	Yellow & White Wispy	H
S-379-1S	Light Orange & White Wispy	H
S-389-1S	Pale Gray & White Wispy	A
S-601-9S	Clear, White & Amber Wispy	A
S-609-52S	Pearl Pink	K
S-609-8S	Clear White & Pink Wispy	I
S-823-92S	Teal Green & White Wispy	A
S-833-91S	Sky Blue & White Wispy	A
S-838-94S	Steel Blue & White Wispy	A
S-843-92S	Grape & White Wispy	A
S-891-81S	Pink Champagne Semi Wispy	E
S-309-SI	Clear & White Wispy Irid	AI
S-609-8SI	Gold Pink Clear & White irid	II
S-833-91SI	Sky Blue & White Wispy Irid	AI

SOLID OPALS

CODE	ITEM	GROUP
S-200-SF	Solid White Opal	B
S-220-72S	Dark Green Opal	D
S-230-72S	Cobalt Blue Opal	D
S-240-72S	Mauve Opal	B
S-260-72S	Solid Yellow Opal	H
S-270-72S	Solid Orange Opal	H

RACK PACKS

Rack Packs contain approx. 80 sq. ft. of glass. Sheets are 12" x 12". Contains standard & transparent colors, opals & cathedrals, pink and irids.

CODE	ITEM	Price per Piece		
		1+	3+	6+
S-RACK	Spectrum Rack Pack	136.00	122.00	109.00


BAROQUE GLASS

CODE	ITEM	GROUP
S-BR/AME	Amethyst on Clear Streaky	F
S-BR/BUR	Burgundy on Clear Streaky	G
S-BR/CHA	Champagne on Clear Streaky	F
S-BR/CIN	Cinnamon on Clear Streaky	F
S-BR/CLEAR	Clear Baroque	F
S-BR/PALEGR	Pale Gery	F
S-BR/STLBLU	Steel Blue on Clear Streaky	F
S-BR/TEAL	Teal on Clear Streaky	F
S-BR-308	White on Clear	F
S-BR-400	Black on Clear Streaky	G
S-BR-400I	Black on Clear Baroque Irid	GI
S-BR-430	Blue on Clear Streaky	F
S-BR-6000	Black & White on Clear	G
S-BR-602-6	Emerald & White on Clear	F
S-BR-604-1	Pale Purple & White on Clear	F
S-BR-6091-1	Champagne & White on Clear	F
S-BR-CLR-I	Clear Baroque Irid	FI

PRICES PRICE PER SQ. FT.

	Group	Sheet	40ft+	100ft+	200ft+	450ft+	CASE
AA	3.07	2.76	2.45	2.30	2.15	2.05	
A	3.55	3.19	2.84	2.66	2.48	2.38	
B	3.91	3.52	3.12	2.93	2.73	2.62	
C	4.20	3.78	3.36	3.15	2.94	2.81	
D	4.43	3.99	3.54	3.32	3.10	2.97	
E	4.79	4.31	3.83	3.59	3.35	3.21	
F	5.67	5.10	4.54	4.25	3.97	3.80	
G	5.71	5.14	4.57	4.28	4.00	3.83	
H	6.45	5.80	5.16	4.84	4.51	4.32	
I	6.32	5.69	5.06	4.74	4.42	4.24	
K	7.08	6.37	5.66	5.31	4.95	4.74	
IRID	1.11	0.98	0.83	0.78	0.76	0.75	

All Spectrum regular glass may be combined for quantity discounts.



SPECTRUM 96 COE GLASS

Spectrum now has a broad line of specially formulated "Tested Compatible" glass for hot glass artists. These products have been Expansion-Matched to a normal C.O.E. of 96, then factory-tested for fusing comparability. Each glass has been carefully formulated for Multi-Fire devitrification resistance, and every sheet is clearly marked with a Spectrum "Tested Compatible" label. Though they may look the same as our stained glass products, Spectrum "Tested Compatible" glasses are fundamentally different in their basic chemistries, designed to deliver an excellent working range and superior stability for glass fusing, slumping and other Hot-Glass pursuits.

WHY 96?

Like many glassmakers, Spectrum chose the "96" Expansion because of the flexibility it allows to create glasses with "friendly" forming characteristics. The most desirable products in the glass blowing community (like Glasma 71 & Spruce Pine Batch and virtually all Kugler, & Q-Color color bars) hover around the "96" Expansion for the same reasons. These glasses are said to have a "longer working range". To blowers and other manipulators of hot glass, this means more time in that "sweet spot" of temperatures where the artist can affect the glass. A "longer" glass offers more tolerance and freedom for creativity. Glass fusers will discover a wider range of temperatures between "not-yet-fused" and "beyond-full-fused", thus greater freedom in forming and a wider margin of error.

SHOULD I STILL TEST?

We think testing is a good idea, and will continue to recommend it. Testing is your best teacher. You'll discover subtle nuances in different glasses, monitor color shifts, and be better able to predict various characteristics that may result from the fusing process. Plus, because Spectrum's equipment and procedures differ from yours, you just might uncover a set of circumstances in which Spectrum's "Tested Compatible" glasses don't "work" in your system of variables. Better to discover that in testing than in a disappointing project.

USING SPECTRUM "STAINED GLASS" PRODUCTS IN HOT-GLASS WORK

Spectrum makes a tremendous selection of stained glass products that fall outside of their "Tested Compatible" program. As always, Spectrum will endeavor to manufacture those products around the "96" C.O.E. But, outside of System 96, non-compatible glass will not be segregated from compatible glass, so testing is a must. And, in Spectrum's non-System 96 products, devitrification must be dealt with by using Spectrum's clear "Fusing Standard" (#100SFS) as a "cap", or by use of an overglaze, or by careful management of the contributing variables in the fusing process.

Many glass users have had great success using Spectrum Stained Glass products for Hot-Glass work. But be aware that both stress and devitrification, even if not immediately apparent in your finished projects, can cause cracking or surface crystallization over time. So please, when fusing with non-labeled Spectrum products, test habitually and take careful measures to control devitrification. May be mixed with Bullseye & Uroboros 90 COE glass for quantity discounts. Spectrum 96 may also be mixed with itself for quantity discounts.

May be mixed with all Bullseye and Uroboros sheet glass for quantity discounts.

Sheet size 24" x 24" and 24" x 48" except S-100SF & S-200SF which are 24"x48".

SPECTRUM 96 COE GLASS (continued)

TRANSPARENT COLORS

CODE	ITEM	GROUP GLASS	GROUP FRIT
S-1009SF	Black Trans Fusible	C+Y	R
S-1009SF/2	Black Thin Trans Fusible	C+Y	
S-100SFS	Clear Smooth Trans Fusible	A96	P
S-100SFS/2	Clear Thin Trans Fusible	C+Y	
S-100SFSDT	Clear Double Thick Trans	C+Y	
S-110-2SF	Pale Amber Trans Fusible	B+Y	R
S-110-8SF	Light Amber Trans Fusible	B+Y	R
S-121SF	Light Green Trans Fusible	B+Y	R
S-125SF	Dark Green Trans Fusible	C+Y	R
S-130-8SF	Pale Blue Trans Fusible	B+Y	R
S-132SF	Light Blue Trans Fusible	B+Y	R
S-136SF	Dark Blue Trans Fusible	C+Y	R
S-140-8SF	Pale Purple Trans Fusible	B+Y	R
S-142SF	Light Purple Trans Fusible	B+Y	R
S-146SF	Dark Purple Trans Fusible	A+Y	R
S-151SF	Cherry Red Trans Fusible	H+Y	R
S-161SF	Yellow Trans Fusible	H+Y	R
S-171SF	Light Orange Trans Fusible	H+Y	R
S-180-8SF	Pale Grey Trans Fusible	B+Y	R
S-518-1SF*	Bronze Trans Fusible	B+Y	R
S-523-2SF	Teal Green Trans Fusible	B+Y	R
S-523-8SF	Hunter Green Trans Fusible	C+Y	R
S-526-3SF*	Lime Trans Fusible	B+Y	R
S-528-1SF	Sea Green Trans Fusible	B+Y	R
S-533-1SF	Sky Blue Trans Fusible	B+Y	R
S-533-3SF*	Aqua Trans Fusible	B+Y	R
S-534-2SF*	Violet Trans Fusible	B+Y	R
S-538-4SF	Steel Blue Trans Fusible	B+Y	R
S-538-7SF*	Navy Trans Fusible	B+Y	R
S-543-2SF	Grape Trans Fusible	B+Y	R
S-591-1SF	Pink Champagne Trans Fus	E+Y	R

OPAQUE COLORS

CODE	ITEM	GROUP GLASS	GROUP FRIT
S-200SF	Solid White Opaque Fusible	B+Y	R
S-210-72SF	Almond Opaque Fusible	D+Y	R
S-220-72SF	Dark Green Opaque	D+Y	R
S-230-72SF	Dark Cobalt Blue Opaque	D+Y	R
S-240-72SF	Mauve Opaque	B+Y	R
S-260-72SF	Yellow Opaque	H+Y	R
S-270-72SF	Orange Opaque	H+Y	R
S-291-61SF	Champagne Opaque Fusible	F+Y	R

2" x 3" individual samples available of all colors available. Complete sample set of all Spectrum 96 samples also available. **System 96 sample set available for \$75.00**

* New Color

SPECTRUM 96

Group	1+	40+	80+	160+	320+	Case
AA+Y	4.54	4.08	3.63	3.40	3.18	3.04
A+Y	4.98	4.48	3.98	3.73	3.48	3.33
B+Y	5.31	4.78	4.25	3.98	3.72	3.56
C+Y	5.59	5.03	4.47	4.19	3.91	3.74
D+Y	5.80	5.22	4.64	4.35	4.06	3.88
E+Y	6.13	5.52	4.91	4.60	4.29	4.11
F+Y	6.95	6.26	5.56	5.21	4.87	4.66
G+Y	6.99	6.29	5.59	5.24	4.90	4.69
H+Y	7.69	6.92	6.15	5.76	5.38	5.15
I+Y	7.56	6.80	6.05	5.67	5.29	5.07

UROBOROS 96 GLASS

CODE	ITEM	GROUP GLASS
U-1125-96	Clr w/Grn Fract,Grn Streamers	G
U-1129-96	Clr w/Grn&Pink Frac, Grn Strea	H
U-1145-96	Clr w/Grn &Red Frac, Grn Strmr	G
U-1151-96	Clr w/Grn Blu/Prpl Frac,Grn Strm	G
U-5100-96	Clear Ripple Fusible	B
U-5156-96	Black Granite Ripple Fus	D
U-6000-96	Clear Fusible	AA
U-6000-96IR	Clear Iridized	AAX
U-6056-96	Black Hand Rolled Flat	C
U-6056-96IR	Black Iridized	CX
U-6056-96IR	Black Hand Rolled Flat Iridized	CX
U-6100-96	Thin Black Fusible	AA
U-6156-96	Thin Black Fusible	C
U-6500-96	Clear Granite	A
U-6500-96IR	Clear Granite Iridized	AX
U-6556-96	Black Granite	C
U-6556-96IR	Black Granite Iridized	CX
U-7000-96	Clear Fibroid	C
U-7056-96	Black Fibroid	C
U-8000-96	Clear Radium Regular	A
U-8056-96	Black Radium Regular	C

UROBOROS 96

Group	1+	40+	80+	160+	320+	Case
AA	6.76	5.75	5.41	5.27	5.07	4.73
A	7.60	6.46	6.08	5.93	5.70	5.32
C	9.44	8.02	7.55	7.36	7.08	6.61
D	10.16	8.64	8.13	7.92	7.62	7.11
G	11.78	10.01	9.42	9.19	8.84	8.25
H	13.32	11.32	10.66	10.39	9.99	9.32

CODE	ITEM	1+
S-SAMSET	Spectrum 96 Sample Set	25.00
S-SYS96-3	System 96 Sample Set	75.00
S-SAMPLE	Spectrum 96 2" x3" Sample	1.00

SYSTEM 96 FRITS

Spectrum system 96 frits are available in 33 colors and 5 sizes. Available in 8.5 oz small jars, 4 lb big jars and 40 lb buckets.

To order frit or powder, add -F1, F2, F3, F5, or F7 after part number.

FRIT SIZE

Powder	= F1 =	0.13mm - 0.25mm
Fine	= F2 =	0.25mm - 0.75mm
Medium	= F3 =	0.75mm - 2.5mm
Coarse	= F5 =	2.5mm - 7.6mm
Mosaic	= F7 =	7.6mm - 15mm

PRICE PER 8.5 OZ FRIT JAR

Code	1+	6+	12+	24+
P	4.25	3.83	3.61	3.40
R	4.89	4.40	4.15	3.91

PRICE PER 8.5 OZ POWDER JAR

Code	1+	6+	12+	24+
P	5.44	4.90	4.62	4.35
R	6.26	5.63	5.32	5.00

PRICE PER 4LB FRIT JAR

Code	1+	6+	12+	24+
P	17.56	15.80	14.93	14.05
R	21.84	19.66	18.56	17.47

PRICE PER 40 LB BUCKET

Code	1+	3+	4+	5+	8+
P	133.46	130.12	123.45	118.44	111.77
R	159.42	155.43	151.45	147.46	139.49

SPECTRUM 96 SAMPLER PACKS

You get 27 sq ft of "Tested Compatible" sheet glass in 12" x 12" and 6" x 12" pieces. Includes Hi-fire iridescents and Fracture-streamers. 28 different colors in all, with extra clear black & white. All glass fully numbered to make re-ordering easy. Also includes 5 varieties of System 96 frit (5 colors in 5 sizes). 45 lbs of glass total.

Code S-SYS96-1

Also available is a smaller intro kit with 10 assorted colors in 6" x 6" pieces plus 4 assorted frits.

Code: S-SYS96-2

SYSTEM 96 STRINGERS & NOODLES

NOODLES

SN-00-96
SN-1108-96
SN-125-96
SN-136-96
SN-146-96
SN-171-96
SN-200-96
SN-2502-96
SN-2602-96
SN-56-96
SN-M-96

Clear
Medium Amber
Dark Green
Dark Blue
Deep Purple
Light Orange
White Opal
Red Opal
Yellow Opal
Black
Mardi Gras Mixed

STRINGERS

SS-00-96
SS-1108-96
SS-125-96
SS-136-96
SS-146-96
SS-171-96
SS-200-96
SS-2602-96
SS-2602-96
SS-56-96
SS-M-96

Item	Price Per Tube			
	1+	6+	12+	24+
All Noodles & Stringers	4.50	4.25	4.00	3.75



SYSTEM 96 FRITS

CODE	ITEM	1+	Price Per Piece		
			2+	4+	8+
S-SYS96-1	System 96 Sampler Pack	139	119	112	107
S-SYS96-2	System 96 Mini Pack	59	50	48	45
S-SYS96-3	System 96 Sample Kit Set	75	72	68	60