

Other Glass Formulas

Olson apparently collected glass formulas from many sources. The following recipes were found in his notebooks, but there is nothing to indicate that he used these at the Heisey company. These may just be a compilation of different colors recorded in case the company decided to experiment with these.

Fire Engine Red 12-21-53

Dr. R. R. Shively

Sand	600
Soda	190
Feldspar.....	160
Fluorspar	25
Sodium Silicofluoride.....	60
Potassium Carbonate.....	65
Zinc Oxide.....	60
Barium Carbonate.....	15
Bone Ash.....	22
Antimony Oxide	5
Cadmium Sulphide	5½
Borax	11
Metallic Selenium.....	2½

75

Flash Ruby

Dr. R. R. Shively

Sand	1000
Soda	400
Lime.....	170
Cryolite	8
Fluorspar	8
Bone Ash.....	10
Arsenic.....	2
Cad. Sulphide	7
Selenium	3½

Gray (opal) 12-21-53

Dr. R. R. Shively

Sand	1000	100
Feldspar.....	400	40
Soda	340	35
Kryolite	50	5
Aluminum (Alumina?).....	50	5
Plaster Paris (?).....	15	1½
Nitre.....	24	2½
Borax	4	4/10#
Manganese	1 oz.	1 5/100 oz.
P. Blue.....	1 oz.	1/10 oz.
Arsenic.....	2	2/10 oz.

Pink

Dr. R. R. Shively

Sand	1000
Soda	250
Potash.....	150
Nitre.....	35
Burned Lime.....	100
Arsenic.....	2
Selenium	2

Orange

Dr. R. R. Shively

Sand	100#	50#
Soda	38#	19#
Borax	5#	2½#
Burnt Lime	7#	3½#
Cerium Hydrate	6#	3#
Titanium Oxide	3#	1½#
Manganese	1½ oz.	¾ oz.
Arsenic	½#	¼#

Potash Lead Batch 5-16-1930

Dr. R. R. Shively

Sand	100 lbs.
Red Lead	400 lbs.
Potash	250 lbs.
Salt Petre	60 lbs.
Soda	75 lbs.
Arsenic	4 lbs.
Blue and manganese—	quantity sufficient

Ruby—Vic Remington

Sand	500
Soda	210
Zinc Oxide	85
Bone Ash	5
Selenium (Metallic)	10
Cad. Sulphide	14
Arsenic	2
Cryolite	4
Fluorspar	4
Red Oxide of Copper	1½

White Glass

	6-1-40	9-27-54	
Sand	1000	1000	400
Feldspar	250	250	125
Fluorspar	200	200	100
Zinc	25	75	38
Lead	60	60	30
Pearl Ash	50	150	75
China Clay	25	25	13
Arsenic	2½	2½	1¼
Manganese	1	1	½
Uranium	---	9	---
Metallic Selenium	162½	---	---
[unnamed]	45	---	---
Sodium Aluminum Chloride	---	---	---
Antimony Oxide	---	---	---
Brytes	12½	---	---