

Analyses

In April, 1953 Olson submitted a sample of low lead glass to the B. F. Drakenfeld & Co. of Washington, PA, for analysis. Following is the response:

"I am giving you below the analysis of the low lead glass which you sent us.

Silica	72.03%
Lead oxide.....	7.04
Alumina	0.36
Calcium oxide.....	2.82
Magnesium oxide	0.93
Sodium oxide.....	9.73
Potassium oxide.....	5.63
Boric acid.....	0.7

"From this analysis I have calculated a batch for you, allowing for a slight loss in ignition in the burnt dolemite [sic] lime. The batch would be -

Sand	100 lbs.
Litharge.....	10 lbs.
Burnt dolemite lime	5½ lbs.
Soda ash	21 lbs.
Potassium carbonate anly. ...	12 lbs.
Nitre.....	4 lbs.
Borax	2 lbs.
Antimony	3 oz.
Manganese	quantity sufficient

"My experience with these low lead glasses has not been very satisfactory. I have not worked with them for a number of years but I did a lot of work with them a long time ago and they are more or less of a headache. I think your greatest difficulty today is in the pots you are getting. They are not well made and they are not aging enough.

"R. R. Shively
"Vice President"

In Mid-December, 1949, the Heisey Co. apparently submitted a sample of gold ruby glass to the Sharp-Shurtz Company of Lancaster, Ohio for analysis. The results are listed below.

Silicon Dioxide (SiO ₂)	53.73%
Lead Oxide (PbO).....	35.00
Iron & aluminum oxide (R ₂ O ₂)	0.18
Sodium Oxide (Na ₂ O).....	0.47
Potassium oxide (K ₂ O).....	10.03
Selenium (Se).....	none found
	99.41%