

DEPARTMENT OF COMMERCE

Bureau of Standards

Certificate of Analyses

OF

STANDARD SAMPLE No. 93

BOROSILICATE GLASS

(All results are computed on basis of material ignited at 500 to 600° C.)

<i>ANALYST*</i>	SiO ₂	B ₂ O ₃	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	ZrO ₂	P ₂ O ₅	CaO	MgO	Na ₂ O	K ₂ O	SO ₃	Cl	As ₂ O ₃	As ₂ O ₅
-----	80.66	12.75	1.94	0.078	0.026	0.014	Not de- tected	Not detected	0.012	4.18	0.16	0.007	0.034	0.09	0.13
-----	80.64	12.69	1.94	.078	.026	.014			.020	4.22	.13	.010	.037	.091	.15
3 -----	80.59	12.78	1.94	.078	.024	.011			.030	4.03	.16	-----	-----	.05	.17
4 -----	80.49	12.83	1.91 ^a	.07	.03	-----			.04	4.21	.19	-----	-----	.11	.12
Averages -----	80.60	12.76	1.94	.076	.027	.013	-----	.026	4.16	.16	.009	.036	.085	.14	

^a Omitted from average. Includes ZrO₂.

***LIST OF ANALYSTS**

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| 1. H. B. Knowles, Bureau of Standards. | 3. Frederick Wynkoop, Booth, Garrett & Blair, Philadelphia, Pa. |
| 2. M. O. Lamar, Norton Company, Worcester, Mass. | 4. P. E. Corbin, Corning Glass Works, Corning, N. Y. |

Washington, D.C.
July 10, 1933

LYMAN J. BRIGGS,
Director.