

DEPARTMENT OF COMMERCE

Bureau of Standards

Certificate of Analyses

OF

STANDARD SAMPLE No. 99

SODA FELDSPAR

[ALL RESULTS ARE BASED ON A SAMPLE DRIED FOR ONE HOUR AT 105° C.]

Analyst *	SiO <sub>2</sub>	R <sub>2</sub> O <sub>3</sub> + RO <sub>3</sub> + R <sub>2</sub> O <sub>5</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	BaO	Loss on ignition
1.....	68.65	19.28	19.06	0.065	0.054	0.33	<sup>1</sup> 10.72	0.40	0.014	0.142	<0.001	0.01	0.58
2.....	68.62	19.24		.073	.03	.39	10.82	.44					.57
3.....	68.63	19.25		.062	.03	.37	10.70	.38					.54
	68.63	19.32		.072	.047	.26	10.65	.39					.48
5.....	68.75	19.35		.065	.06	.38	10.72	.41					.48
6.....	68.67	19.26		.068	.05	.25	10.77	.44	.019				.48
Averages ....	68.66	19.28	19.06	.067	.063	.36	10.73	.41	.017	.142	<.001	.01	.53

<sup>1</sup> Lithium not detected on a 0.5 g sample.

<sup>2</sup> Not included in averages.

The Bureau of Standards analysis was made according to the methods described by W. F. Hillebrand in "The Analysis of Silicate and Carbonate Rocks," U. S. Geological Survey Bulletin No. 700.

\*LIST OF ANALYSTS

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| 1. H. B. Knowles, Bureau of Standards.   | 4. E. W. Koenig, Erwin Feldspar Co. (Inc.), Erwin, Tenn. |
| 2. J. D. Hall, S. G. Wiseman, Chas. Hickey, Tennessee Mineral Products Corporation, Spruce Pine, N. C. | 5. A. K. Lyle, Hazel-Atlas Glass Co., Washington, Pa.    |
| 3. G. H. Bailey, Oxford Mining & Milling Co., West Paris, Mo.  | 6. A. Rautenberg, Champion Porcelain Co., Detroit, Mich. |

Washington, D. C.  
March 28, 1931

*George K. Burgess*  
Director.