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_2	R_2O_3 + RO_2 + R_2O_5	Al_2O_3 10.1	Fe_2O_3	MgO	CaO	Na_2O	K_2O	TiO_2	P_2O_5	MnO	BaO	Loss on ignition
1	68.65	19.28	19.06	0.065	0.054	0.33	[1]10.72	0.40	0.014	0.142	<0.001	0.01	0.56
2	68.62	19.24	----------	.073	[2].03	.39	10.82	.44	----------	----------	----------	----------	.57
3	68.68	19.25	----------	.062	[2].03	.37	10.70	.38	----------	----------	----------	----------	.54
----------	68.63	19.32	----------	.072	.047	.36	10.65	.39	----------	----------	----------	----------	.48
5	68.75	19.35	----------	.065	.06	.38	10.72	.41	----------	----------	----------	----------	.48
6	68.67	19.26	----------	.068	.05	.35	10.77	.44	.019	----------	----------	----------	.48
Averages	68.66	19.28	19.06	.067	.053	.36	10.73	.41	.017	.142	<.001	.01	.52

[1] Lithium not detected on a 0.5 g sample.
[2] 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

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

Washington, D. C.
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George K. Burgess
Director.

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Supplemental Information

OTHER ELEMENTS: In addition to the certified elements, the following are present at the approximate concentrations listed:

NUMBER			Ti	Ta	W	V	Sn
			Percent	*Percent*	*Percent*	*Percent*	*Percent*
445	845	D845	0.03	0.002	0.42	0.05	.....
446	846	D846	.34	.030	.04	.03	0.02
447	847	D847	.02	.002	.06	.03	.....
448	848	D848	.23	.026	.14	.02	.05
449	849	D849	.11	.021	.19	.01	.07
450	850	D850	.05	.002	.21	.006	.09

Because of minor irregularities in the samples observed in homogeneity testing and because the values represent the analytical results by a single laboratory, these elements have *not* been certified; however, the indicated results are given for additional information on the composition of the steels.

MATERIAL in rod form for the standards was furnished to the Bureau by the Uddeholm Company, Sweden.