

DEPARTMENT OF COMMERCE

SS
RECORD FILE

Bureau of Standards

Certificate of Analysis

OF

STANDARD SAMPLE No. 9b

BESSEMER STEEL, 0.2% CARBON

ANALYST.	CARBON.		SILICON.		PHOSPHORUS.				SULPHUR.	MANGANESE.		COPPER.	NICKEL.	CHROMIUM.	VANADIUM.
	DIRECT COMBUSTION.	SOLUTION AND COMBUSTION.	SULPHURIC ACID DEHYDRATION.	HYDROCHLORIC ACID DEHYDRATION.	ALKALI-MOLYBDATE.	MOLYBDATE REDUCTION.	WEIGHING PHOSPHO-MOLYBDATE.	AS $Mg_2P_2O_7$ FROM PHOSPHO-MOLYBDATE.	DIRECT OXIDATION.	BISMUTHATE.	PERSULPHATE (Arsenic titration).				
1	.177	-----	.023	-----	.113	-----	-----	-----	.068	.741	-----	.029	.034	<.02	<.005
2	.177	-----	-----	.025	.112	-----	-----	-----	.072	.736	-----	.028	-----	-----	-----
3	.188	-----	.022	-----	.111	-----	-----	-----	.069	.744	-----	.030	-----	-----	-----
4	.172	-----	.019	-----	.114	-----	-----	-----	.066	.746	.745	.031	-----	-----	-----
5	.198	.195	.025	.023	.107	-----	-----	.110	.065	.750	-----	.030	-----	-----	-----
6	.164	-----	-----	.022	-----	.110	-----	-----	.066	.752	-----	-----	-----	-----	-----
7	.190	-----	.022	-----	-----	-----	.112	-----	.061	.759	-----	.035	-----	-----	-----
8	.184	-----	.025	-----	.113	-----	-----	-----	.061	.748	.750	.034	-----	-----	-----
9	.193	-----	.023	-----	.112	-----	.110	-----	.060	.745	-----	.036	-----	-----	-----
AVERAGE	.183	.195	.023	.023	.112	.110	.111	.110	.065	.747	.748	.032	.034	<.02	<.005
GENERAL AVERAGE	.184		.023		.111				.065	.747		.032	.034	<.02	<.005

INDEX TO ANALYSTS

- | | |
|--|--|
| 1. L. F. Witmer, Bureau of Standards. | 5. Porter W. Shimer & Son, Easton, Pa. |
| 2. A. A. Sliwinski, Bureau of Standards. | 6. Booth, Garrett & Blair, Philadelphia, Pa. |
| 3. J. I. Hoffman, Bureau of Standards. | 7. W. D. Brown, Carnegie Steel Co., Duquesne Works. |
| 4. Routine Laboratory, Bureau of Standards, F. H. Tucker, in charge. | 8. J. L. Harvey, Carnegie Steel Co., Homestead Works. |
| | 9. H. E. Campbell, Carnegie Steel Co., Clairton Works. |

This standard is not recommended for colorimetric carbon determinations, because of uncertainty as to the condition of the carbon.

S. W. STRATTON,
Director.

Washington, D. C.

Nov. 9, 1918.