

Bureau of Standards

Certificate of Analysis

OF

STANDARD SAMPLE No. 9 b

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 GENERAL	.183	.195	.023	.023	.112	.110	.111	.110	.065	.747	.748	.032	.034	< .02	< .005
AVERAGE	.184		.023		.111				.065	.747		.032	.034	< .02	< .005

INDEX TO ANALYSTS

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| 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.

Washington, D. C.

S. W. STRATTON,
Director.

Nov. 9, 1918.