

Bureau of Standards

Certificate of Analysis

OF

STANDARD SAMPLE No. 22 a

BESSEMER STEEL, 0.6% CARBON

ANALYST.	CARBON.		SILICON.		PHOSPHORUS.				SUL- PHUR.	MANGANESE.		COPPER.	NICKEL.	CHROMIUM.	VANADIUM.
	DIRECT COMBUSTION.	SOLUTION AND COMBUSTION.	SULPHURIC ACID DEHYDRATION.	HYDROCHLORIC ACID DEHYDRATION.	ALKALI- MOLYBDATE.	MOLYBDATE REDUCTION.	WEIGHING PHOS- PHO-MOLYBDATE.	AS Mn-P-O ₅ FROM PHOSPHO- MOLYBDATE.	DIRECT OXIDATION.	BISMUTHATE.	PERSULPHATE (Arsenic titration).				
1	.571		.153		.121				.099	.789		.036	.06	<.02	<.005
2	.572		.145		.124				.101	.787		.036			
3	.566		.153	.145	.119				.104	.797		.044			
4	.584	.587	.154	.149	.114			.116	.102	.800		.040			
5	.567			.146		.119			.099	.790					
6	.588		.149				.120		.099	.802		.034			
7	.580		.152		.120				.098	.790	.790	.036			
8	.585		.148		.120		.118		.098	.798		.034			
AVERAGE	.577	.587	.159	.147	.120	.119	.119	.116	.100	.794	.790	.037	.06	<.02	<.005
GENERAL AVERAGE	0.578		0.149		0.119				.100	0.794		.037	.06	<.02	<.005

INDEX TO ANALYSTS

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. L. F. Witmer, Bureau of Standards. 2. J. I. Hoffman, Bureau of Standards. 3. Routine Laboratory, Bureau of Standards, F. H. Tucker, in charge. 4. Porter W. Shimer & Son, Easton, Pa. | <ol style="list-style-type: none"> 5. Booth, Garrett & Blair, Philadelphia, Pa. 6. W. D. Brown, Carnegie Steel Co., Duquesne Works. 7. J. L. Harvey, Carnegie Steel Co., Homestead Works. 8. 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.