Department of Commerce and Labor

Bureau of Standards

Certificate SS#19

OF

ANALYSES OF STANDARDIZED STEEL

ACID OPEN HEARTH, 0.2

ANALYST.	CARBON.			SILICON.	PHOSPHORUS.	SULPHUR.		MANGANESE.
	BY DIRECT COMBUSTION IN OXYGEN.	BY SOLUTION AND COMBUSTION IN OXYGEN.	COLORIMETRIC.			BY OXIDATION.	BY EVOLUTION AS HYDROGEN SULPHIDE.	
1. John R. Cain, Bureau of Standards	.....	0.191	.....	0.025	0.090	0.096	0.094	0.740
2. H. C. P. Weber, Bureau of Standards	0.201	.....	.....	0.031	0.095	0.097	0.092	0.750
3. Porter W. Shimer, Easton, Pa	0.200	0.201	.....	0.038	(a) 0.097 (b) 0.095	0.097	0.095	0.726
4. Booth, Garrett & Blair, Philadelphia	0.203	0.200	.....	0.033	0.091	0.093	0.090	0.744
5. Jones & Laughlin Steel Co., Pittsburg	0.225	0.220	0.220	.....	0.091	.....	0.093	0.740
6. Pennsylvania Steel Co., Steelton	.....	0.207	.....	0.039	0.095	.....	0.093	0.770
Carnegie Steel Co., Pittsburg:								
7. Homestead Works	.....	.....	0.210	0.042	0.093	.....	0.089	0.800
8. Duquesne Works	.....	0.230	0.190	.....	0.089	0.093	0.087	0.800
9. South Sharon Works	.....	.....	0.199	0.021	0.092	.....	0.084	0.770
AVERAGE	0.207	0.208	0.205	0.033	0.093	0.095	0.091	0.760

PHOSPHORUS: Reduction of molybdate used by 1, 2, 3(b), 4, 7, and 9; alkalimetric determination of molybdate by 5, 6, and 8; gravimetric determination by 3(a).

MANGANESE: Bismuthate method by 3 and 4; persulphate by 5, 7, and 8; Ford-Williams by 1, 2, and 6; lead peroxide by 9.

This standard is not recommended for colorimetric carbon determinations.

S. W. STRATTON,
Director.

Washington, D. C.

H

Form 29.
ACID OPEN HEARTH (0.2) CERTIFICATE.
Ed. Sept. 28-08—600.