

Department of Commerce and Labor

Bureau of Standards

Certificate SS#4

OF

ANALYSES OF STANDARDIZED IRON

SAMPLE B. SECOND SET

ANALYST.	TOTAL CARBON.	GRAPHITE.	COMBINED CARBON.	SILICON.	TITANIUM.	PHOSPHORUS, GRAVIMETRIC.	PHOSPHORUS, PERMANGANATE TITRATION.	PHOSPHORUS, ALKALI TITRATION.	SULPHUR, TOTAL BY OXIDATION.	SULPHUR, EVOLVED AS HYDROGEN SULPHIDE.	MANGANESE.	COPPER.
John R. Cain, Bureau of Standards...	3.72	3.20	0.52	1.265	0.043	-----	0.094	-----	0.070	0.058	0.504	0.005
Booth, Garrett & Blair, Philadelphia.	3.74	3.24	0.50	1.312	-----	0.089	-----	-----	0.073	0.053	0.488	-----
Cremer & Bicknell, Cleveland	3.77	3.32	0.45	1.242	0.037	0.093	0.094	-----	0.069	0.052	0.464	0.003
Andrew S. McCreath & Son, Harrisburg.	3.79	3.30	0.49	1.235	-----	0.092	-----	-----	0.072	0.057	0.491	-----
Albert W. Smith, Cleveland.....	3.78	3.28	0.50	1.281	0.040	0.090	0.092	0.090	0.068	0.054	0.484	0.005
AVERAGE	3.76	3.27	0.49	1.267	0.040	0.091	0.093	0.090	0.070	0.055	0.486	0.004

Director.

Test No. _____

In charge of Analyses.

Washington, D. C.