## UNITED STATES DEPARTMENT OF COMMERCE WASHINGTON

## National Bureau of Standards Certificate of Analyses

## Spectrographic Boron Steel Standards Standard Samples 425 to 430 and 825 to 830

No.		Name	Total Boron
425 426 427 428 429 430	825 826 827 828 829 830	Mn-Ni-Cr (N. E 9450)	Percent 0. 0006 . 0011 . 0027 . 0059 . 0091 . 019

Sizes. Standards in the 400 series are rods  $\frac{7}{2}$  inch in diameter, 4 inches long, and standards in the 800 series are rods  $\frac{1}{2}$  inch in diameter, 2 inches long. The carbon contents of the six steels lie between 0.4 and 0.7 percent.

APPLICATION. Procedures for employing these standards in the determination of boron in steel are described in the NBS Research Paper RP1705, J. Research NBS 36, 351 (1946).

ANALYSTS. The certified values represent chemical determinations made by K. D. Fleischer of the National Bureau of Standards. Spectrographic tests for identification of rods and for homogeneity were made by C. H. Corliss of the National Bureau of Standards.

The steel rods for these standards were prepared by the Bethlehem Steel Co., Bethlehem, Pa.

Washington 25, D. C., August 2, 1951.

A. V. ASTIN, Acting Director.