

REPORT ON STANDARD SAMPLES FOR SPECTROCHEMICAL ANALYSIS

1947

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A.S.T.M. COMMITTEE E-2, SUBCOMMITTEE IV
ON
STANDARDS AND PURE MATERIALS
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FOREWORD

Quantitative spectrochemical analysis is based on comparison of unknown samples with standard samples of similar composition. Standard samples are frequently prepared by the analyst for the particular problem in hand, but for the analysis of many common materials, particularly metals and alloys, standard samples have been prepared in quantities adequate for general distribution. The rapid growth of spectrochemical analysis and a corresponding increase in available standard samples call for a periodic compilation of types of sources of standards for the information of analysts.

In 1943 a report on available standard samples was prepared under the sponsorship of the War Metallurgy Committee by W. R. Brode¹ and later revised and brought up to date by W. R. Brode and B. F. Scribner.² The revised report was published in October, 1944, by the American Society for Testing Materials.³ Since then some of the standards described in the report

¹ W. R. Brode, War Metallurgy Committee Advisory Report, Serial No. W-40, July 31, 1943.

² W. R. Brode and B. F. Scribner, War Metallurgy Committee Research Report, Serial No. W-119, June 23, 1944.

³ W. R. Brode and B. F. Scribner "Report on Standard Samples for Spectrographic Analysis," Am. Soc. Testing Mats., October, 1944. (Issued as separate publication.)

have been exhausted and many new standards have been made available. Recognizing the need for a revision of the report, Subcommittee IV on Standards and Pure Materials of the A.S.T.M. Committee E-2 on Spectrochemical Analysis has conducted a new survey. The results of the survey are incorporated into the present report which is published to provide, in a form for ready reference, current information on spectrochemical standard samples. The report follows the general form of the Brode and Scribner report, except that the material is restricted to standard samples; lists of analytical line pairs are omitted.

National Bureau of Standards
Washington, D. C.
January 9, 1947.

Charles H. Corliss, *Chairman*
Subcommittee IV on Stand-
ards and Pure Materials.

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