



Designation: A 751 – 9601

An American National Standard

Standard Test Methods, Practices, and Terminology for Chemical Analysis of Steel Products¹

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This standard has been approved for use by agencies of the Department of Defense.

INTRODUCTION

This standard was prepared to answer the need for a single document that would include all aspects of obtaining and reporting the chemical analysis of steel, stainless steel, and related alloys. Such subjects as definitions of terms and product (check) analysis variations (tolerances) required clarification. Requirements for sampling, meeting specified limits, and treatment of data usually were not clearly established in product specifications.

It is intended that this standard will contain all requirements for the determination of chemical composition of steel, stainless steel, or related alloys so that product specifications will need contain only special modifications and exceptions.

1. Scope

1.1 This standard covers definitions, reference methods, practices, and guides relating to the chemical analysis of steel, stainless steel, and related alloys. It includes both wet chemical and instrumental techniques.

1.2 Directions are provided for handling chemical requirements, product analyses, residual elements, and reference standards, and for the treatment and reporting of chemical analysis data.

1.3 This standard applies only to those product standards which include this standard or parts thereof as a requirement.

1.4 In cases of conflict, the product specification requirements shall take precedence over the requirements of this standard.

1.5 Attention is directed to Practice A 880 when there may be a need for information on criteria for evaluation of testing laboratories.

1.6 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

A 880 Practice for Criteria for Use in Evaluation of Testing Laboratories and Organizations for the Examination and Inspection of Steel, Stainless Steel, and Related Alloys²

¹ These test methods, practices, and terminology are under the jurisdiction of ASTM Committee A-1, A01 on Steel, Stainless Steel and Related Alloys, and are the direct responsibility of Subcommittee A01.13 on Mechanical and Chemical Testing and Processing Methods of Mechanical Testing, Steel Products and Processes. Current edition approved Sept. 10, 1996; 2001. Published November 1997; 2001. Originally published as A 751 – 77. Last previous edition A 751 – 956.