
Standard Method of Test for Identification of Iron-Based Alloy Steel Bars for Concrete Reinforcement or Dowels by Handheld X-Ray Fluorescence (XRF) Spectrometer

AASHTO Designation: T 375M/T 375-17 (2021)¹

Adopted: 2017

Reviewed but Not Updated: 2021

Technical Subcommittee: 4f, Metals



**American Association of State Highway and Transportation Officials
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1. SCOPE

- 1.1. This test method covers the procedure to be used in identifying the composition of iron-based alloy steel bars for concrete reinforcement or dowels using X-ray fluorescence (XRF) spectrometer.
- 1.2. The values stated in SI units are to be regarded as the standard.
- 1.3. *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.*
- 1.4. *The quality of the results produced by this standard are dependent on the competence of the personnel performing the procedure and the capability, calibration, and maintenance of the equipment used. Agencies that meet the criteria of R 18 are generally considered capable of competent and objective testing/sampling/inspection/etc. Users of this standard are cautioned that compliance with R 18 alone does not completely assure reliable results. Reliable results depend on many factors; following the suggestions of R 18 or some similar acceptable guideline provides a means of evaluating and controlling some of those factors.*

2. REFERENCED DOCUMENTS

- 2.1. AASHTO Standards:
- M 334M/M 334, Uncoated, Corrosion-Resistant, Deformed and Plain Chromium Alloyed, Billet-Steel Bars for Concrete Reinforcement and Dowels
 - R 18, Establishing and Implementing a Quality Management System for Construction Materials Testing Laboratories
- 2.2. ASTM Standards:
- A276/A276M, Standard Specification for Stainless Steel Bars and Shapes
 - A955/A955M, Standard Specification for Deformed and Plain Stainless Steel Bars for Concrete Reinforcement