



# Standard Test Methods for Rockwell Hardness and Rockwell Superficial Hardness of Metallic Materials<sup>1,2</sup>

This standard is issued under the fixed designation E 18; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

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

## 1. Scope<sup>\*</sup>

1.1 These test methods cover the determination of the Rockwell hardness and the Rockwell superficial hardness of metallic materials, including test methods for the verification of machines for Rockwell hardness testing (Part B) and the calibration of standardized hardness test blocks (Part C).

1.2 Values stated in inch-pound units are to be regarded as the standard. SI units are provided for information only.

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. (See Note 6.)*

**Note 1**—The National Institute of Standards and Technology (NIST) maintains the national Rockwell hardness standards for the United States. In June 1998, NIST released new Rockwell C scale (HRC) test blocks as Standard Reference Materials (SRMs). The blocks were calibrated using NIST's primary reference standardizing machine. The major benefit of the NIST standards is that their HRC levels are in line with the other industrialized countries around the world. The NIST HRC levels establish the hardness of materials slightly harder than the historical standards used in the United States for the past 75 years. The revision of E 18 requires that all performance verifications of Rockwell hardness indenters and hardness machines must be made using test blocks calibrated traceable to the Rockwell standards maintained by NIST. This can be accomplished through the use of commercial test blocks calibrated traceable to the NIST standards or by directly using the NIST SRMs. This requirement will apply only to the Rockwell scale(s) for which NIST supplies primary reference test blocks.

**Note 2**—Previous editions of this standard have stated that the steel ball was the standard type of Rockwell indenter ball. Starting with this edition, the tungsten carbide ball is considered the standard type of Rockwell indenter ball. The use of tungsten carbide balls will provide an improvement to the Rockwell hardness test because of the tendency of steel balls to flatten with use, which results in an erroneously elevated hardness value. The user is cautioned that Rockwell hardness tests

comparing the use of steel and tungsten carbide balls have been shown to give different results. For example, depending on the material tested and its hardness level, Rockwell B scale tests using a tungsten carbide ball indenter have given results up to one Rockwell point lower than when a steel ball indenter is used.

## 2. Referenced Documents

### 2.1 ASTM Standards:<sup>3</sup>

- A 370 Test Methods and Definitions for Mechanical Testing of Steel Products
- B 19 Specification for Cartridge Brass Sheet, Strip, Plate, Bar, and Disks (Blanks)
- B 36/B 36 M Specification for Brass Plate, Sheet, Strip, and Rolled Bar
- B 96 Specification for Copper-Silicon Alloy Plate, Sheet, Strip, and Rolled Bar for General Purposes and Pressure Vessels
- B 97 Specification for Copper-Silicon Alloy Plate, Sheet, Strip, and Rolled Bar for General Purposes<sup>4</sup>
- B 103/B 103 M Specification for Phosphor Bronze Plate, Sheet, Strip, and Rolled Bar
- B 121/B 121 M Specification for Leaded Brass Plate, Sheet, Strip, and Rolled Bar
- B 122/B 122 M Specification for Copper-Nickel-Tin Alloy, Copper-Nickel-Zinc Alloy (Nickel Silver), and Copper-Nickel Alloy Plate, Sheet, Strip, and Rolled Bar
- B 130 Specification for Commercial Bronze Strip for Bullet Jackets
- B 134 Specification for Brass Wire
- B 152 Specification for Copper Sheet, Strip, Plate, and Rolled Bar
- B 291 Specification for Copper-Zinc-Manganese Alloy (Manganese Brass) Sheet and Strip
- B 370 Specification for Copper Sheet and Strip for Building Construction
- E 4 Practices for Force Verification of Testing Machines
- E 29 Practice for Using Significant Digits in Test Data to

<sup>1</sup> These test methods are under the jurisdiction of ASTM Committee E28 on Mechanical Testing and are the direct responsibility of Subcommittee E28.06 on Indentation Hardness Testing.

Current edition approved Feb. 1, 2005. Published February 2005. Originally approved in 1932. Last previous edition approved in 2003 as E 18 – 03<sup>ε</sup>.

<sup>2</sup> In this test method, the term Rockwell refers to an internationally recognized type of indentation hardness test as defined in Section 3, and not to the hardness testing equipment of a particular manufacturer.

<sup>3</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

<sup>4</sup> Withdrawn.

<sup>5</sup> A Summary of Changes section appears at the end of this standard.

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ASTM E 407-07 American Society for Testing and Materials,2007

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## **Table of Contents Astm E 18 Nhml**

1. Understanding the eBook Astm E 18 Nhml
  - The Rise of Digital Reading Astm E 18 Nhml
  - Advantages of eBooks Over Traditional Books
2. Identifying Astm E 18 Nhml
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Astm E 18 Nhml
  - User-Friendly Interface
4. Exploring eBook Recommendations from Astm E 18 Nhml
  - Personalized Recommendations

- Astm E 18 Nhml User Reviews and Ratings
- Astm E 18 Nhml and Bestseller Lists
- 5. Accessing Astm E 18 Nhml Free and Paid eBooks
  - Astm E 18 Nhml Public Domain eBooks
  - Astm E 18 Nhml eBook Subscription Services
  - Astm E 18 Nhml Budget-Friendly Options
- 6. Navigating Astm E 18 Nhml eBook Formats
  - ePub, PDF, MOBI, and More
  - Astm E 18 Nhml Compatibility with Devices
  - Astm E 18 Nhml Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Astm E 18 Nhml
  - Highlighting and Note-Taking Astm E 18 Nhml
  - Interactive Elements Astm E 18 Nhml
- 8. Staying Engaged with Astm E 18 Nhml
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Astm E 18 Nhml
- 9. Balancing eBooks and Physical Books Astm E 18 Nhml
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Astm E 18 Nhml
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Astm E 18 Nhml
  - Setting Reading Goals Astm E 18 Nhml
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Astm E 18 Nhml
  - Fact-Checking eBook Content of Astm E 18 Nhml

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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