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IRHD HARDNESS TESTERS



STANDARDS

ASTM D1415

DIN ISO 48

ISO 48-2

ISO 48-4

APPLICATIONS

IRHD Hardness Testers - Standard and Micro Models for Rubber and Elastomers

Qualitest offers a comprehensive and competitively priced range of IRHD Hardness Testers, including both Standard IRHD and Micro IRHD Hardness Testers, designed for precise hardness measurement of rubber, elastomers, and soft polymers. These instruments provide highly repeatable results in accordance with international standards, making them ideal for quality control, R&D, and compliance testing across various industries.

What is IRHD Hardness Testing?

IRHD (International Rubber Hardness Degrees) is a non-destructive method for determining the hardness of rubber and elastomeric materials. Unlike Shore hardness methods, IRHD testing applies a constant minor and major load, measuring the depth of indentation with higher precision and less surface distortion. This is especially important for small or thin rubber components.

Standards Compliance

Qualitest IRHD Hardness Testers fully comply with the following international standards:

- ISO 48-2: Rubber, vulcanized or thermoplastic — Determination of hardness — Part 2: IRHD methods
- ISO 48-4: Specifies the Micro IRHD method for testing small or thin rubber specimens
- DIN ISO 48 / ASTM D1415: Widely recognized equivalents for IRHD testing in the European and North American markets

These standards ensure consistency, traceability, and global acceptance of test results, particularly for industries like automotive, aerospace, medical devices, and rubber component manufacturing.

Types of IRHD Testers Offered

Standard IRHD Hardness Testers

Ideal for flat rubber samples or components with larger surface areas and thicknesses (typically ≥ 6 mm). These testers use a spherical indenter and a fixed loading sequence, offering high repeatability and long-term reliability.

Micro IRHD Hardness Testers

Specially designed for small, thin, or O-ring specimens with limited testing area or thickness (as low as 1 mm). These testers use a smaller indenter and lighter loads in accordance with ISO 48-4, ensuring accurate readings without damaging delicate samples.



Applications

- Rubber and elastomer quality assurance
- Testing O-rings, gaskets, seals, and molded rubber parts
- Automotive, aerospace, defense, electronics, and medical manufacturing
- Research and development of new rubber formulations

With over 25 years of experience in materials testing solutions, Qualitest provides one of the most competitive and reliable selections of IRHD and Micro IRHD Hardness Testers on the market. Our solutions are backed by technical expertise, global support, and a commitment to precision.

Contact us today to learn more about our IRHD hardness testing solutions or to request a quote tailored to your application needs.

FEATURES

IRHD Hardness Testers Key Features and Benefits

- Highly accurate and repeatable results for soft rubber and elastomers
- Non-destructive testing, preserving valuable components
- Fully automated and manual models available depending on lab requirements
- Digital display with intuitive operation
- Compact benchtop design suitable for laboratories and production lines
- Calibration accessories and traceability certificates available
- Conforms to international standards for global quality compliance



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Connect with us

Contact our **QualiTeam** today to find out how we can help your organization **select the most suitable testing solution** for your application, requirements, and budget.

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