

# Maximizing Quality with ISO/IEC 17025 Accredited Metal Hardness Testing

## Understanding ISO/IEC 17025 Accreditation

ISO/IEC 17025 (The International Organization for Standardization) accreditation serves as a formal recognition of the technical competence and reliability of calibration laboratories. This accreditation instills confidence in the calibration quality, ensuring the highest level of quality assurance. It also provides full traceability to national standards, which is important for internal and external audits.

Whether it is assessing the hardness of metals in manufacturing processes or evaluating the durability of metal parts in various industries, ISO/IEC 17025 accreditation ensures consistency and precision in testing procedures.



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### **Equotip Products: Leaders in Portable Hardness Testing**

These ISO/IEC 17025 process standards are met in Proceq laboratories, which calibrate [Equotip's range of hardness testing devices](#). These include Leeb Portable Hardness Testers (such as the 550 Leeb, Live Leeb, Piccolo 2, and Bambino 2), Ultrasonic Contact Impedance (UCI) Hardness Testers (550 UCI and Live UCI), and Portable Rockwell Hardness Tester (550 Portable Rockwell). These state-of-the-art devices offer unparalleled accuracy and reliability in assessing the hardness of metals across various applications.

### **Benefits of ISO/IEC 17025 Accreditation in Metal Hardness Testing**

Obtaining ISO/IEC 17025 accreditation is not an easy task and it assures customers of the accuracy and reliability of metal hardness testing products calibration. Having this accreditation for Equotip's portable metal hardness testing equipment offers numerous benefits:

- *Reliable and Consistent Results:* Accredited calibration laboratories adhere to stringent standards and rigorous testing protocols, ensuring the accuracy and consistency of hardness testing results.
- *Traceability:* Traceability ensures accurate measurement results, which are crucial for quality control. To maintain accuracy in every step of the calibration process, it is essential to have full traceability to National Standards (SI units). ISO/IEC 17025 confirms that traceability in the laboratory is assured. This means that all the measurements are made using the same standard and they can later be related to known references, expressed in standard units, through a

series of calibration comparisons. This ensures reliability and universal acceptance of measurement standards among laboratories.

- *Global Recognition:* Accreditation to ISO/IEC 17025 standards ensures international recognition of hardness testing calibration laboratories results, facilitating acceptance and compliance with industry standards and regulations worldwide. Thanks to agreements like the EA Multilateral Agreement and [ILAC MRA](#) (Mutual Recognition Arrangement), you can find a full comprehensive list of equivalent accredited laboratories globally. Some equivalent accreditation bodies are:

ISO/IEC 17025 equivalent calibration accreditation bodies		
Country	Name	Scope
United Kingdom	UKAS	<a href="#">United Kingdom Accreditation Service</a>
Switzerland	SAS	<a href="#">Swiss Accreditation Service</a>
Germany	DakKS	<a href="#">Deutsche Akkreditierungsstelle GmbH</a>
Spain	ENAC	<a href="#">Entidad Nacional de Acreditacion</a>
Canada	SCC	<a href="#">Standards Council of Canada</a>
Greece	ESYD	<a href="#">Hellenic Accreditation System - ESYD</a>
India	FDAS	<a href="#">Federation for Development of Accreditation Services</a>
	NABL	<a href="#">National Accreditation Board for Testing &amp; Calibration Laboratories</a>
Indonesia	KAN	<a href="#">National Accreditation Body of Indonesia</a>
Saudi Arabia	SAAC	<a href="#">Saudi Accreditation Center</a>
Singapore	SAC	<a href="#">Singapore Accreditation Council</a>
South Africa	SANAS	<a href="#">South African National Accreditation System</a>

- *Improved Efficiency:* Accredited calibration laboratories employ standardized procedures and quality management systems. ISO/IEC 17025 accreditation provides independent assurance of the competence and reliability of testing laboratories. This way, they make sure that the laboratories fulfill the standards, building constant and periodic improvement cycles to enhance the efficiency and reliability of metal hardness testing processes.
- *Customer Satisfaction:* ISO/IEC 17025 accreditation enhances customer satisfaction and trust in the testing services provided by accredited laboratories, eliminating the need for third-party services such as accredited calibration centers. This ensures that customers can consistently offer the best quality solutions to both internal and external stakeholders, whether it is conducting quality checks on production or ensuring the highest quality assurance for products shipped across the production chain, such as spare parts.

## Proceq laboratories

Proceq, renowned for its commitment to precision and reliability, has achieved ISO/IEC 17025 accreditation for its metal hardness testing calibration process. The accredited calibration process that these products undertake is implemented into series production at no extra cost.

These versatile, accurate, and user-friendly solution for a wide range of hardness testing applications are ideal for quality control inspectors, engineers, and technicians in various industries. ISO/IEC 17025 can also increase road safety as Proceq's laboratories for [Zehntner Road Marking \(ZRM\) and Sign \(ZRS\) retroreflectometers](#) have also been accredited.

In conclusion, ISO/IEC 17025 accreditation plays a vital role in ensuring the accuracy, reliability, and quality of metal hardness testing processes. With Proceq's ISO/IEC 17025 accredited metal hardness testing calibration, customers can trust in the precision and consistency of hardness testing results, enhancing safety and quality and durability in metal components and structures.

If you want to know more about Metal Hardness Testing, [schedule a demo](#) with one of our experts.



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