Application Range
- Rockwell test blocks are calibrated in accordance with ASTM E 18-02 section C using NIST Rockwell HRC standard reference materials. All other Rockwell scales are traceable to Wilson® Instruments hardness levels through laboratory standardizing machines. All Wilson Instruments laboratory machines are directly verified according to applicable ASTM parameters using devices that are traceable to NIST either directly or through a NVLAP® approved laboratory.
- Dimensions of Wilson Instruments Rockwell test blocks are 2.38 in (60.4 mm) in diameter and 0.250 in to 0.350 in (6.35 mm to 8.89 mm) thick.

Description
Wilson® Instruments Rockwell test blocks set the standard for the industry and are made from the highest quality material to ensure the most uniform and repeatable blocks available. Rockwell test blocks are calibrated to meet American and international standards at the Instron®-Wilson Instruments hardness calibration laboratory. The laboratory is accredited to ISO/IEC 17025 by NVLAP, and the testers used in the calibration process undergo a stringent monitoring process. Wilson Instrument’s attention to detail and precision is unsurpassed in the test block industry. A comprehensive variety of scales and blocks are available to meet the wide ranges and scales associated with Rockwell testing. Custom Wilson Instruments test blocks and scales are also available.

Principle of Operation
Rockwell test blocks provide a relatively easy and inexpensive means for verifying tester, indenter and system performance. Rockwell hardness test blocks are reference materials standardized to determine the average hardness of the block surface. The resulting certified value provides a reference number and tolerance that should be met during the tester verification process to ensure compliance with performance standards. Checking against test blocks should be a daily procedure. Generally it is recommended that the high, middle and low range of the given scale be verified. A minimum of five tests should be performed on the standardized surface of the block. The average must fall within the tolerance of the indicated block value for the tester to be considered in calibration.

All block values listed are nominal levels; the actual calibrated value will vary. For more information, please refer to the ‘Hardness Range’ section under block details.