Every test force and ball size must be tested
- At least 2 test blocks from different hardness ranges
- Measurement of the reference indent, if no direct verification has taken place beforehand
- 5 measurements per test block

Calculation of variance
Calculation of repeatability
Calculation of measurement uncertainty

INDIRECT VERIFICATION TO ISO STANDARDS

At least every 12 months

Vickers ISO 6507-2018

At least every 18 months

- Every test force must be tested
- At least 2 test blocks from different hardness ranges;
  3 blocks if only one method is used
- Measurement of the reference indent
- 5 measurements per test block

Calculation of variance
Calculation of repeatability
Calculation of measurement uncertainty

Knoop ISO 4545-2017

At least every 12 months

- Every test force must be tested
- At least 2 test blocks from different hardness ranges;
  3 blocks if only one method is used
- Measurement of the reference indent
- 5 measurements per test block

Calculation of variance
Calculation of repeatability
Calculation of measurement uncertainty

Rockwell ISO 6508-2015

At least every 12 months

- Every scale used must be tested
- At least 3 test blocks from different hardness ranges
- At least 2 pre-measurements to be discarded
- At least 5 measurements per test block

Calculation of variance
Calculation of repeatability
Calculation of measurement uncertainty

INDIRECT VERIFICATION TO ASTM STANDARDS

At least every 18 months

Brinell E10-15

- Every test method used must be tested
- At least 1 test block per test method;
  at least 2 test blocks per indenter
- Measurement of the reference indent
- 5 measurements per test block for 1 mm and 2.5 mm balls
- 3 measurements for 5 mm and 10 mm balls

Calculation of variance
Calculation of repeatability

Vickers E92-16

- Every test method used must be tested
- At least 2 test blocks from different measuring ranges
- At least 1 test block per test method
- 5 measurements per test block

Calculation of variance
Calculation of repeatability

Knoop E92-16

- Every test method used must be tested
- At least 2 test blocks from different hardness ranges;
  3 blocks if only one method is used
- Measurement of the reference indent
- 5 measurements per test block

Calculation of variance
Calculation of repeatability

Rockwell E18-16

- Every test method used must be tested
- At least 3 test blocks from different measuring ranges
- At least 2 pre-measurements to be discarded
- At least 5 measurements per test block

Calculation of variance
Calculation of repeatability