## INDIRECT VERIFICATION TO ISO STANDARDS



## **BRINELL ISO 6506-2014 VICKERS ISO 6507-2018** KNOOP ISO 4545-2017 **ROCKWELL ISO 6508-2015** At least every 12 months At least every **12** months At least every 12 months At least every 12 months Every test force and ball size must be tested Every test force must be tested Every test force must be tested Every scale used must be tested At least 2 test blocks from different hardness ranges At least 2 test blocks from different hardness ranges; At least 2 test blocks from different hardness ranges; At least 3 test blocks from different hardness ranges 3 blocks if only one method is used 3 blocks if only one method is used Measurement of the reference indent, if no direct At least 2 pre-measurements to be discarded verification has taken place beforehand Measurement of the reference indent Measurement of the reference indent · At least 5 measurements per test block INDIRECT VERIFICATION

## TO ASTM STANDARDS

## **BRINELL E10-15** VICKERS E92-16 **KNOOP E92-16 ROCKWELL E18-16** At least every 18 months Every test method used must be tested Every test method used must be tested Every test method used must be tested At least 1 test block per test method; At least 2 test blocks from different measuring ranges At least 3 test blocks from different measuring ranges at least 2 test blocks per indenter At least 1 test block per test method Every scale used must be tested · Measurement of the reference indent · 5 measurements per test block · 5 measurements per test block · 5 measurements per test block for 1 mm and 2.5 mm balls · 3 measurements for 5 mm and 10 mm balls