

ASTM A1038-26 | New Standard

UCI Hardness Instrument Verification — What Changed?



No Operator Calibration to Pass Verification

If mean of 5 measurements fails tolerance E — adjustment on reference block is **PROHIBITED**. Instrument must be withdrawn.



NEW: Repeatability Criterion Rv Introduced

Accurate but not repeatable probes can no longer pass verification.

< 500 HV → Rv ≤ 6%

≥ 500 HV → Rv ≤ 8%

Why It Matters?



Nuclear



Refinery



Manufacturing



Asset Integrity

Want to learn more about UCI repeatability? Read our full article →