

P16315

Gauge Waterproofing Feasibility

To determine if waterproofing of gauges is sufficient, perform the following test:

- 1) Affix strain gauges to test sample
- 2) Place a known load on the test sample, record measurement
- 3) Apply waterproof coating to strain gauge and exposed connections
- 4) Place the same known load on the test sample. If strain measurement is within 2% of the original, then the waterproof covering is determined to not affect the strain reading.
- 5) Submerge testing rig in salt water
- 6) Place the same known load on the test sample. If strain measurement is within 2% of the original, then the waterproof covering is determined to be effective.