Element Dudley – List of Uncertainty budgets for measurements associated with accredited tests.

This document is supplemental to Element's Statement of Conformity Policy. The below table contains indicative uncertainty values for measurements associated with the testing activities in Element Dudley schedule of accreditation.

Uncertainty budgets at time of test may differ from the values reported in this document due to changes in calibration, qualified staff and other contributing factors. These changes will normally be negligible. For this reason, these values should be seen as indicative rather than precise. Budgets for specific test results can be made available upon request if these are required to understand the actual risk when the statement of conformity is made.

Measuring Equipment	Test Methods	Standard / Specification	Uncertainty value (%)
6" Vernier Gauge	Liquid Penetrant Magnetic Particle Radiography	BS 3518-1 BS 3518-3 BS EN 6072 BS EN 3987 prEN 3874 (April 1988) ISO 1099 ASTM D3479/3479M BS EN ISO17638 BS EN ISO 9934-1 BS EN 10228-1 BS EN 1369 ASTM A275/A275M ASTM E709 ASTM E1444/E1444M AWPS 003X RRP 58004 Def. Stan. 02-729:Part 2 ASME V Goodrich 981-060-014 BAe R05-6103 ABP 6-5229 Moog PS 74 WP 523 ASTM E1742/E1742M ASTM E1030 Def. Stan. 02-729:Part 1 Goodrich 981-060-022 BAe R05-6113 ABP 6-5346 QCP 201 BS EN ISO17638 BS EN ISO 9934-1 BS EN 10228-1 BS EN 1369 ASTM A275/A275M ASTM E709 ASTM E1444/E1444M AWPS 003X RRP 58004 Def. Stan. 02-729:Part 2 ASME V Goodrich 981-060-014 BAe R05-6103 ABP 6-5229 Moog PS 74 WP 523 AWPS 004X AWPS 005X BS EN ISO 9606-2 BS EN ISO 15614-1 BS EN ISO 15614-2 BS 4872:Part 1 BS 4872:Part 2 ASME V	±0.4% of measurement

Element Dudley – List of Uncertainty budgets for accredited methods

Measuring Equipment	Test Methods	Standard / Specification	Uncertainty value (%)
Eye Loupe/Graticule	Liquid Penetrant Magnetic Particle Radiography	BS M 39 BS EN ISO 3452-1 BS EN 10228-2 SND-006 BS EN ISO 1371 EP-137 AWPS 006 RRP 58003 ASTM E165/E165M ASTM E1209 ASTM E1210 ASTM E1219 ASTM E1220 ASTM E1417/E1417M Def. Stan. 02-729:Part 4 Goodrich 981-060-021 WP122 Sikorsky –SS8806 BAe R05-6101 ABP 6-5230 QCP 205 QCP 207 Moog PS79 RRP 58012 MIL-STD 6866 BS M 34 BS EN ISO 5579 BS EN 12681 RRP 58006 ASME V ASTM E94 ASTM E1742/E1742M ASTM E1030 Def. Stan. 02-729:Part 1 Goodrich 981-060-022 BAe R05-6113 ABP 6-5346 QCP 201 BS EN ISO17638 BS EN ISO 9934-1 BS EN 10228-1 BS EN 1369 ASTM A275/A275M ASTM E709 ASTM E1444/E1444M AWPS 003X RRP 58004 Def. Stan. 02-729:Part 2 ASME V Goodrich 981-060-014 BAe R05-6103 ABP 6-5229 Moog PS 74 WP 523 AWPS 004X AWPS 005X BS EN ISO 9606-2 BS EN ISO 15614-1 BS EN ISO 15614-2 BS 4872:Part 1 BS 4872:Part 2 ASME V	±2.45% of measurement

Element Dudley – List of Uncertainty budgets for accredited methods

Measuring Equipment	Test Methods	Standard / Specification	Uncertainty value (%)
Ruler	Liquid Penetrant Magnetic Particle Radiography	BS 3518-1 BS 3518-3 BS EN 6072 BS EN 3987 prEN 3874 (April 1988) ISO 1099 ASTM D3479/3479M BS EN ISO17638 BS EN ISO 9934-1 BS EN 10228-1 BS EN 1369 ASTM A275/A275M ASTM E709 ASTM E1444/E1444M AWPS 003X RRP 58004 Def. Stan. 02-729:Part 2 ASME V Goodrich 981-060-014 BAe R05-6103 ABP 6-5229 Moog PS 74 WP 523 ASTM E1742/E1742M ASTM E1030 Def. Stan. 02-729:Part 1 Goodrich 981-060-022 BAe R05-6113 ABP 6-5346 QCP 201 BS EN ISO17638 BS EN ISO 9934-1 BS EN 10228-1 BS EN 1369 ASTM A275/A275M ASTM E709 ASTM E1444/E1444M AWPS 003X RRP 58004 Def. Stan. 02-729:Part 2 ASME V Goodrich 981-060-014 BAe R05-6103 ABP 6-5229 Moog PS 74 WP 523 AWPS 004X AWPS 005X BS EN ISO 9606-2 BS EN ISO 15614-1 BS EN ISO 15614-2 BS 4872:Part 1 BS 4872:Part 2 ASME V	±0.21% of measurement

Measuring Equipment	Test Methods	Standard / Specification	Uncertainty value (%)
Ultrasonic Thickness	Ultrasonic Testing	BS EN 12680-1 BS EN 10160 BS EN 10228-3 BS EN 10228-4 BS EN 10307 BS EN 10308 BS EN 17640 BS EN 4050-1 ASME V ASTM A388 SAE-AMS-STD 2154 Def. Stan. 02-729:Part 5 DTD 936 DTD 937 BAe R05-6104	±5.0% measurement