

Gauge Repeatability and Reproducibility Data Sheet

| | |
|-------------|---|
| Appraisers | 2 |
| Replicates | 3 |
| Sample size | 5 |

Gauge / Equip. ID:
 Parameter/Characteristic:

Study Date:

| APPRAISER/ TRIAL # | PART | | | | | | | | | | AVERAGE |
|-----------------------|---|---------|---------|---------------|---------|---------|---------------|---------|---------|---------|--------------------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 1 | 97.000 | 95.000 | 96.000 | 95.000 | 95.000 | | | | | | 95.600 |
| 2 | 97.000 | 96.000 | 95.000 | 96.000 | 98.000 | | | | | | 96.400 |
| 3 | 95.000 | 99.000 | 94.000 | 97.000 | 98.000 | | | | | | 96.600 |
| 4. Average | 96.333 | 96.667 | 95.000 | 96.000 | 97.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | 96.2000 |
| 5. Range | 2.000 | 4.000 | 2.000 | 2.000 | 3.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2.600 |
| 6. | 96.000 | 96.000 | 96.000 | 98.000 | 97.000 | | | | | | 96.600 |
| 7. 2 | 96.000 | 97.000 | 95.000 | 98.000 | 95.000 | | | | | | 96.200 |
| 8. 3 | 99.000 | 95.000 | 98.000 | 97.000 | 98.000 | | | | | | 97.400 |
| 9. Average | 97.000 | 96.000 | 96.333 | 97.667 | 96.667 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | 96.7333 |
| 10. Range | 3.000 | 2.000 | 3.000 | 1.000 | 3.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2.400 |
| 11. | | | | | | | | | | | #DIV/0! |
| 12. 2 | | | | | | | | | | | #DIV/0! |
| 13. 3 | | | | | | | | | | | #DIV/0! |
| 14. Average | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| 15. Range | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 16. Part Average | 96.667 | 96.333 | 95.667 | 96.833 | 96.833 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | $\bar{X} = 96.4667$ $R_p = 1.167$ |
| 17. | $\bar{R} = a$ | 2.6000 | | $\bar{R} = b$ | 2.4000 | | $\bar{R} = c$ | 0.0000 | | | $\bar{R} = 2.50$ |
| 18. | $(\text{Max } \bar{X} = 96.733) - (\text{Min } \bar{X} = 96.200) = X_{\text{diff}}$ | | | | | | | | | | 0.53 |
| 19. | | | | | | | | | | | |
| 20. | | | | | | | | | | | |