

GEP – DIMENSIONS AND MEASUREMENTS

Introductory Notes:

So much of technical research, development and indeed operational work is totally dependent on a proper understanding and application of the correct and often precise usage of correct parameters and dimensions and measurements thereof. These GEP guidelines are a useful checklist of some of the most important considerations that should be made when working with dimensions and measurements.

1. Establish the necessary level of accuracy required before assessing dimensions.
2. Determine the number of decimal places of relevance to the property or aspect you are measuring (example SG of PTFE or Teflon = 3 decimal places).
3. Use correct measuring tools e.g. vernier, not a tape, if fractions of a millimetre.
4. Re-calibrate your measuring tools regularly.
5. Repeat measurements at least 3 times.
6. Repeat measurements from different reference points, where this will more accurately confirm measurements.
7. Define which measurements need to be graphically recorded, or related to other measurements (for example temperature), and establish beforehand how wide recordings should range or how many recordings should be made.
8. Define critical lists of parameters that reach hazardous or dangerous levels to ensure the range of measurements made are appropriate for these control purposes.

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