

PRO CALI-CAN™

This calibration vessel represents 5% air by volume when placed in any ¼ cubic foot pressure meter bucket (base). Make quick and easy checks by placing pro cal-can upright at the bottom of your pressure meter bucket. The best way is to place pro cal-can in an already water filled meter bucket. Keep pro cal-can upright as you place it on the bottom of the bucket. Place pressure meter cover on bucket (base), latch, top off meter with water and continue to operate your pressure meter as you would normally do taking a test.

Use two pro cali-cans if you would like to check at 10%. There is a small hole at the bottom of pro cali-can. Keep it unobstructed. Usually a very slight amount of water may be left in the can after a test. Shake this water out before making another test.

Technical Note:

The Pro Cali-can meets ASTM C231-91b, Standard Test Method for air content of freshly mixed concrete by the pressure method. Please refer to this standard when calibrating your pressure meter.

When using an internal calibrating device, such as the pro cali-can, the effective volume of the calibration vessel should be determined.

The factor 0.98 is used to correct for the reduction in the volume of air in the calibration vessel when it is compressed by a depth of water equal to the depth of the measuring bowl. This factor is approximately 0.98 for an 8 in. deep measuring bowl at sea level. Its value decreases to approximately 0.3975 at 5000 ft. above sea level and 0.970 at 13000 ft. above sea level.

Thus, the pro cali-can at sea level has an effective volume of 4.9% and at 5000 ft. the effective volume would be 4.88%.

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