Guarantee

LEE RELOADING PRODUCTS are guaranteed not to wear out or break from normal use for two full years or they will be repaired or replaced at no charge if returned to the factory. Any Lee product of current manufacture, regardless of age or condition, will be reconditioned to new, including a new guarantee, if returned to the factory with payment equal to half the current retail price.

Reading the Micrometer  The charge bar is calibrated in cubic centimeters. This is simply a volume measurement that is convenient to work with. If you prefer, think of them as cubic powder units.

On the bar body, will see lines indicating .2 through 1.6 cc in 1/10 (.1) cc increments. The micrometer thimble has 10 graduations, each being 1/100 (.01) of a cc. Therefore, it takes one revolution of the micrometer thimble to move the slide one increment or 1/10 (.1) cc, ten turns for 1 cc.

Setting the Micrometer Multiply the desired grain charge by the volume of one grain (VMD – see powder chart) of the powder you are using. The answer is in cubic centimeters and this is the setting for your measure.

Example: Desired charge is 5.7 grains of ALLIANT BULLSEYE. Check VMD of Bullseye — it equals .064

\[
\text{VMD} \times \text{Grains} = \text{CC setting}
\]

\[
\text{Then } \quad 0.064 \times 5.7 = 0.3664 = 0.61 \text{ (rounded off)}
\]

Turn micrometer thimble until the slide reaches the .6 cc line; continue to rotate the micrometer thimble until the .1 graduation appears on the thimble. Now weigh your charge and you’ll be very close to the correct charge. Likely, it won’t be exact as powder manufacturers have a 16% lot-to-lot density tolerance.

WARNING

- Coarse flake powders like Red Dot and Green Dot can give erratic charges when the charge bar is set smaller than .4cc.
- The charge bar is not adjustable to the full range of the graduations; i.e., it cannot be set at .2cc.
- Do not reduce the micrometer setting with powder in the measure.
- Do not attempt to disassemble the charge bar or reduce the micrometer thimble friction.

CAUTION

Ammunition reloading can be dangerous if done improperly and should not be attempted by persons not willing and able to read and follow instructions exactly. Children should not be permitted to reload ammunition without strict parental supervision. Always wear safety glasses when reloading and shooting. Ammunition loaded with these tools and data should only be used in modern guns in good condition. We do not accept responsibility for ammunition loaded with these tools or data as we have no control over the manufacture and storage of components or the loading procedure and techniques. Primers and gun powders, like gasoline and matches, can be dangerous if improperly handled or misused.

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AD2537 CHARGE BAR INSTRUCTIONS
Volume Measure Density (VMD) Volume of 1 Grain of Powder

This is a term we use to describe the average volume of one grain of a specific powder when metered by the average loader.

The chart, at right, is that part of a cubic centimeter that needed to hold one grain of the powder specified. Cubic centimeter was selected as a standard not only because that is what the powder companies use, but a cubic inch is a comparatively large unit. To obtain the same degree of accuracy, it would be necessary to carry charge in grains by the number behind the powder you are using. It is then easy to set your measure to that number.

This is a term we use to describe the average volume of one grain of the dropped charge.

Mark this number on the powder container and you'll have it for reference in the future. Average of several samples increases accuracy and confidence.

In a perfect world, you would never again have to weight a charge for this container of powder. However, if anything can go wrong, it will at the worst possible time. For this reason, we strongly urge you to check your charge with a scale every time you reset your measure.

Calibrate Your Powder or VMD Not Listed

To find the VMD of your powder, set your charge bar to 1.0cc. Drop the charge, weigh the charge in grains, and divide 1.0cc by the weight of the dropped charge.

To find the VMD of your powder, set your charge bar to 1.0cc. Drop the charge, weigh the charge in grains, and divide 1.0cc by the weight of the dropped charge.

I.O cc setting = VMD

Grains weight of sample

SEE ADDITIONAL VMD'S AT leeprecision.com/files/instruct/VMD.pdf

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Numbers are approximate.