

Instructions for using Cast Bullet Engineering's Chamber Casting Alloy (CCA)

Our Chamber Casting Alloy has been specially formulated to replicate the exact properties of Cerrosafe $^{\text{M}}$ alloy.

CCA is the best choice for making a chamber and throat casting of a rifle's chamber that might be in question. It is also particularly good for accurate measurements of the throat region of a rifle to properly ascertain cast bullet fit. It can also be used for extracting a stuck cartridge case after a head separation event.

Instructions:-

- 1. Please ensure that the firearm is unloaded, of course that is common sense, but I have to tell you!
- 2. I also remove the scope if fitted, and the forend, or the complete stock. No-one wants molten lead on their stock, or scope.
- 3. Clean and dry the chamber or area you wish to cast. You can pre-warm the chamber with a heat gun and very judicious use if you wish to.
- 4. Run a fairly tight fitting cleaning patch on a jag from the muzzle to about 2-3cm from the start of the throat, or to where you want to take your measurements. I leave the rod in the barrel as it makes it easier to tap out the cast later.
- 5. Heat the CCA in a small ladle, a bullet casting ladle is ideal, just make sure it is clean with no contamination. A small gas torch is perfect, try not to apply direct heat to the metal, just the ladle.
- 6. CCA melts at 158-190 F (70-88 C) so very little heat is required. When molten, pour into the chamber to the desired level. Try not to overheat the CCA.
- 7. Don't overfill the chamber area, CCA in the locking lug region is extremely difficult to remove.
- 8. As soon as the CCA has solidified and no longer presents a burn hazard, very gently push or tap it out of the chamber. This should be done no more than 10-15 minutes after casting. At one hour after casting, it will have expanded to full size and be very difficult to get out.
- 9. At one hour after casting, the chamber or throat cast will be at the exact size to take your measurements with a micrometer, Vernier calipers are not accurate enough.
- 10. You can label the cast and put it away, I put mine in the reloading die box. If it's not needed, CCA can be remelted over and over again. I also put the date on my casts.
- 11. Please remember to re-oil the chamber, barrel and complete firearm before you put it away.
- 12. Don't forget to wash your hands with soap and water after using CCA or any lead based product.
- 13. Over the page is a chart of expansion rates over time, measured in inches for CCA.
- 14. It may be helpful to know that CCA has a density of 9.2 to calculate how much CCA is required to fill a chamber. A Cubic Centimeter (CC) of water weighs 1 gram. A CC of CCA will weigh 9.2 grams.



Size in inches
0004"
0007"
0009"
Exact size
+.0016"
+.0018"
+.0019"
+.0019"
+.0022"
+.0025"
+.0025"
+.0025"

Expansion rates for CCA over time.