

Curtis Hallstrom

[REDACTED]

Dear Mr. Hallstrom,

Thank you for your interest in testing ammunition that utilizes Shell Shock's new NAS³ cases. Below is a brief note outlining some unique features of these cases.

NAS³ Technology Summary:

Shell Shock's NAS³ 9mm cases weigh 50% than brass cases, offer greater lubricity and will not abrade, clog, foul, wear-out or damage breach and ejector mechanisms.

[REDACTED]



Weight is becoming a big deal for the military and law enforcement markets. In the military market, lighter ammunition will reduce the transportation costs from the U.S. to the battle field and reduce the weight of the ammo carried by infantry soldiers. In addition, it will enable weight restricted vehicles (e.g. aircraft and drones) to carry more ammunition, fly faster or have greater operational range.

In the law enforcement market, lighter ammunition will have a dramatic impact on the overall weight of the duty belt and help address medical issues (back and hip problems) caused by wearing/ carrying heavy equipment for extended periods of time.

Another often overlooked benefit offered by NAS³ cases is they can be cleaned up with a magnet. A low cost rolling roofer's magnet is an ideal tool for the job. Of course this applies to all shooters not just military and law enforcement. This allows for easy cleanup of NAS³ cases (and simple separation from brass cases). Shell Shock has an agreement with Anderson Arms (through their subsidiary, Oak Island Ammunition) to provide a 'buy-back' program for spent NAS³ shell cases. The purpose of the program is to offer any range a convenient opportunity to sell spent NAS³ shell cases collected at their facility. Anderson will match the price per pound ranges currently receive for used brass cases. Anderson is fully equipped to reload NAS³ cases as part of a remanufactured target ammunition program.

Other benefits (in addition to lower weight) include greater corrosion resistance, higher tensile strength (2x+ stronger) and more elasticity than brass. NAS³ cases will not split, chip, crack or grow (stretch) and are fully-reloadable with Shell Shock's custom reloading dies. NAS³ cases have been tested successfully by customers to pressures over 70k psi. and are ideal for +P and +P+ loads. Customers have reported amazing results with lighter (e.g. lead free) projectiles where greater pressures (resulting in greater velocities) are required to achieve desired energy levels at the target. NAS³ cases [REDACTED] can be colored for branding purposes and easy load identification.

NAS³ is "Best in Class" for maintaining consistent velocity between rounds. In an independent test performed by H.P. White Laboratory (a major munitions testing facility), rounds fired using NAS³ cases achieved a velocity standard deviation of 0.93 FPS (124 grain FMJ bullet, 4.2 grains Titegroup powder, 10 hand-loaded rounds, extreme variation 3fps). We obviously cannot guarantee that everyone will achieve these exact results, but they were measured and published by an independent laboratory that specializes in ballistic testing and are an indication of the extraordinary combination of features at work in NAS³ technology.

These features, which are often overlooked, include:

- Uniform wall thickness throughout the entire casing
- A flat bottom at the base of the cylinder (resulting in approximately 2% larger internal case volume)
- A cone-shaped and slightly larger diameter flash hole that offers greater flash dispersion

Taken together these features enable a more consistent powder burn rate from round to round and better overall performance.

Shell Shock's cases can be reloaded using a specially designed set of sizing and flaring dies. These dies are not made by Shell Shock Technologies, but are manufactured by an external specialist company to facilitate the reloading of Shell Shock's cases. More information on the reloading dies (including instructional videos) can be found at s3reload.com. The main difference between these dies and conventional reloading dies is that these contain a spring to push the case out from the center instead of pulling from the case rim (extraction groove). These dies can also be used with brass cases.

To learn more about Shell Shock's revolutionary technology, visit www.shellshocktech.com or email us at info@shellshocktech.com.

About Shell Shock Technologies, LLC:

Founded in Westport, Connecticut, in 2015, Shell Shock Technologies, LLC is an early stage technology and manufacturing company focused on developing innovative case technologies for the ammunition industry. Shell Shock is a component manufacturer supplying shell cases to the shooting sports market, as well as to U.S. and foreign ammunition manufacturers, law enforcement, military and other government agencies. Shell Shock does not load ammunition. www.shellshocktech.com

Please do not hesitate to call us with any questions. We look forward to your comments.

Sincerely,


VP Business Development

