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FOR IMMEDIATE RELEASE

Shell Shock Technologies Announces .50 BMG NAS³™ Case

Third-party live-fire testing confirms substantial velocity gains; production is underway with expected availability in July 2026.

Eubank, Ky. (July 2026) – [Shell Shock Technologies, LLC](http://www.shellshocktech.com) (SST), a leading innovator in the ammunition industry, today announced the completion of independent live-fire testing for its .50 BMG NAS³™ case, with results confirming significant velocity and performance advantages over standard brass at standard operating pressures. The .50 BMG NAS³ case was developed to meet the demanding performance and logistics requirements of military and law enforcement end-users, as well as extreme long-range precision shooters. Production is currently underway, and SST expects the .50 BMG NAS³ case to be available for purchase on its website in August 2026.

Testing was conducted by Vairog US, LLC on March 31, 2026, using a 650-grain Ball projectile, WC860 propellant, and a CCI No.35 primer in a 28-inch barrel. At a 265-grain powder charge and 66,770 PSI, the SST NAS³ case produced 3,111 feet per second. For reference, standard brass-cased M33 Ball ammunition typically produces approximately 2,910 FPS. Testing was conducted across nine charge weights ranging from 245 to 285 grains, with zero primer or case failures recorded throughout.

The velocity advantage is a direct function of NAS³ case architecture. The SST .50 BMG case features approximately 13.5 percent greater internal capacity than standard brass, roughly 330 grains of case volume, versus ~290 grains, enabling a meaningfully higher powder charge at equivalent pressures. The result is greater muzzle velocity and downrange energy without exceeding the cartridge's standard pressure envelope.

Weight reduction is equally significant. At approximately 33.7 grams, the SST .50 BMG NAS³ case is roughly 40 percent lighter than a comparable brass case (~54.85 grams). Across 1,000 rounds, that translates to approximately 46 pounds of weight savings, a logistics and mobility benefit with direct operational relevance for military and law enforcement personnel managing load weight in the field. This is also a meaningful advantage for long-range competition and precision shooting disciplines where every equipment decision matters.



The NAS³ case's nickel-stainless steel alloy construction also contributes to cleaner extractions, faster cooling versus brass, and corrosion resistance that supports reliable performance under sustained fire and adverse environmental conditions.

"The .50 BMG has defined long-range precision and overmatch capability for generations. What we've done with the NAS³ case is take that proven platform and fundamentally change what it's capable of delivering. Independent testing confirms what our engineering told us: more velocity, less weight, same pressure envelope. For the military and law enforcement operators and long-range precision shooters who depend on this caliber, that's not an incremental improvement. That's a new baseline," said [Peter Foss](#), Managing Partner and CEO of Shell Shock Technologies.

The .50 BMG NAS³ case is engineered for professional end-users who require every performance advantage the platform can deliver, and for precision shooters pushing the limits of extreme long-range capability.

Keep up with Shell Tech's advanced ammunition on the [website](#) and social media platforms: [Facebook](#), [Instagram](#), [X \(formerly Twitter\)](#), and [YouTube](#).

About Shell Shock Technologies:

[Shell Shock Technologies, LLC](#) (SST), headquartered in Eubank, Kentucky, is a leading innovator in advanced ammunition case design and manufacturing. The company's patented NAS³™ technology platform combines stainless steel and aerospace-grade aluminum to create lightweight, durable, and high-performance ammunition cases designed for demanding military and commercial applications.

For more information, please visit www.shellshocktechnologies.com or follow @shellshocktech on Instagram.