



LAW ENFORCEMENT & MILITARY TESTING

Element Wichita is an independent ballistic testing facility that puts some of the most important equipment to the test: Body armor, helmets and firearm locking devices and more. Our expert staff has practical experience in both law enforcement and military test specifications.

DEDICATED LAW ENFORCEMENT AND MILITARY TESTING

With modern test equipment and innovation, we deliver accurate and confidential test procedures and reporting of test results. The latest technology and some of the most experienced specialists in the business give us the edge to maximize test accuracy, and your confidence.

BALLISTIC RESISTANT MATERIAL IMPACT TESTING IN WICHITA

Our ballistic resistant material impact test services can be tailored for any scenario, including - but not limited to - First Article Testing (FAT), Lot Acceptance Testing (LAT), Internal Research and Development (IR&D), Qualification and Research and Development.

We know you can't wait months for testing, if you need test data within 24 hours of test completion, you'll have it. Our environmental test set ups - from temperature and humidity to submersion and durability - are co-located with our ballistic testing services, ensuring expedient and efficiently run programs.

Our body armor testing services include:

- NVLAP Accredited, Lab Code 200818-0
- NIJ 0101.04/0101/05 Interim
- NIJ 0101.06 including in house conditioning
- NIJ 0115.00 Stab Resistance
- Home Office Scientific Development Branch Ballistic and Stab Testing
- VPAM KDIW 2009
- VPAM BSW 2006
- UL 752
- NIJ 0108.01

- Mil-Std 662F
- FBI, DEA, LAPD

FIREARM TESTING IN WICHITA

For safe, accurate and reliable ammunition and firearms testing, you need a test laboratory that knows precisely what it's doing. At Element, we have been providing the U.S. military, as well as other federal and commercial customers with high-quality, cost-effective firearms testing for well over 20 years.

With climate-controlled ranges, high-speed cameras and remote live witnessing, our Wichita facility boasts the following features:

- Four ballistic test ranges, each capable of testing full scale products
- Each range utilizes redundant Oehler Model 55 chronographs and Oehler Model 34 Ballistic Computers to ensure accurate velocity measurements
- The exclusive independent test facility in the United States utilizing Doppler radar technology for velocity measurement

In addition, we were the first independent ballistic test laboratory to utilize FARO Arm and Geomagic Qualify software - capable of generating precise measurements up to 0.0006" {0.016mm} - as well as Doppler radar. Two high speed cameras can capture test data up to 500,000 frames per second.

DELIVERING INNOVATIVE PRODUCT TESTING AND CERTIFICATION SOLUTIONS

Our fully adjustable test fixtures allow us to support numerous test samples:

- Testing can be observed from a fully protected viewing room where the Universal Receiver is fired by a customized pneumatic triggering device.
- Projectiles are fired from a laser-sighted Universal Receiver or Remington 40X receiver fitted with a .22 Fragmentation barrel.
- We also provide testing using a variety of hand- and shoulder-fired weapons.

FIREARM SAFETY DEVICE TESTING

Thanks to our investments in testing equipment and our engineering team's vast experience in firearms safety testing, our Wichita facility is a national leader in firearm and trigger safety testing.

We regularly perform reliability and firearm functionality testing to meet the following standards:

- California DOJ Testing Standards
- ASTM F2369-04 Standard Safety Specification for Non-Integral Firearms Locking Devices
- ASTM F2456-04 Standard Specifications for Youth Resistant Firearms Containers

HELMET IMPACT TESTING

We're proud to provide comprehensive helmet impact testing services designed to help keep U.S. military and law enforcement personnel safe when they are called upon to protect American citizens and interests at home and abroad.

Our helmet testing services are designed with full compliance to the following standards in mind:

- NIJ 0106.01
- STANAG 2920
- MIL-STD 662F
- DEF(AUST) 10469
- Compression
- Retention
- Pad Durability
- Blunt Impact
- DoT FMVSS No. 218

NVLAP LAB CODE 200818-0

Accredited by the National Voluntary Laboratory Accreditation Program - or NVLAP Lab Code 200818-0 - we are pleased to offer firearms and ballistics testing services in accordance with applicable published standards from the National Institute of Justice (NIJ).

The NIJ is particularly interested in putting forth equipment standards that meet the needs of criminal justice, law enforcement and corrections personnel

HOSDB 2017 ACCREDITED LABORATORY

When it comes to providing ballistic resistant materials testing - for example, for body armor - to recognized military and law enforcement standards, the United Kingdom's Home Office Scientific Development Branch (HOSDB) is a near equivalent of the NIJ for law enforcement equipment standards in the U.S.

For this reason, we are proud to announce that we are an HOSDB 2017 Accredited Laboratory.

ENVIRONMENTAL TESTING IN WICHITA

Element Wichita is recognized by NIJ to perform on-site conditioning according to NIJ 0101.06. We have a Russell's 12' x 9' x 8' walk-in chamber capable of -60° to 150° C and 10-95% RH, which can condition up to six models of body armor at the same time.

Our facility also hosts a 23" x 31" x 33" ESPEC chamber capable of -70° to 150° C and 10-98% RH and a 20" x 20" x 20" Thermotron chamber capable of 177° C.