



LAW ENFORCEMENT AMMUNITION CATALOG - THE FINEST HANDGUN, RIFLE AND SHOTSHELL AMMUNITION FOR LAW ENFORCEMENT



WINCHESTER
AMMUNITION

WINCHESTER® RANGER®

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Winchester products have served the law enforcement community for over 140 years. Protecting civilian and law enforcement lives through industry leading bullet and ammunition designs is not just a recent idea for Winchester—it's been a way of life.

Today, we continue to fulfill critical needs with ground-breaking products that meet and exceed your toughest requirements. These new technologies are the direct result of active duty comments and feedback—and through our active support of the Association of Firearm and Toolmark Examiners (AFTE) and the International Association of Law Enforcement Firearms Instructors (IALEFI).

Combining our industry leading research and development with real world feedback and testing allows us to continue providing the front lines with the highest performing ammunition available.

No matter if your front line is Main Street, USA or a hostile international environment, Winchester Ranger Ammunition is ready, willing and able to serve with you.

In support of our continuous improvement initiatives, our manufacturing facilities in East Alton, IL, achieved ISO recertified to the ISO 9001:2008 standard in December 2009.



POLICE LINE DO NOT CROSS



Latest Innovations from Winchester:

Rarely does an armed confrontation unfold in a manner that leaves the threat out in the open and easily susceptible to lethal force. Walls, autos, heavy clothing and other objects easily influence the outcome. Law enforcement must be prepared with the best possible tools to deal with and overcome those barriers.

Ranger® Bonded handgun ammunition was created to deliver maximum penetration and effectiveness through the toughest of barriers. This is achieved by

Winchester's proprietary core/jacket bonding process where a specifically designed hollow point cavity acts in unison with the bonded core and bullet jacket to control expansion.

Ranger® T Series uses a patented SXT® hollow point jacket design to achieve an unbeatable combination of expansion and penetration. Consistent stopping power in real world situations backed by street proven accuracy and reliability make this a top duty round.





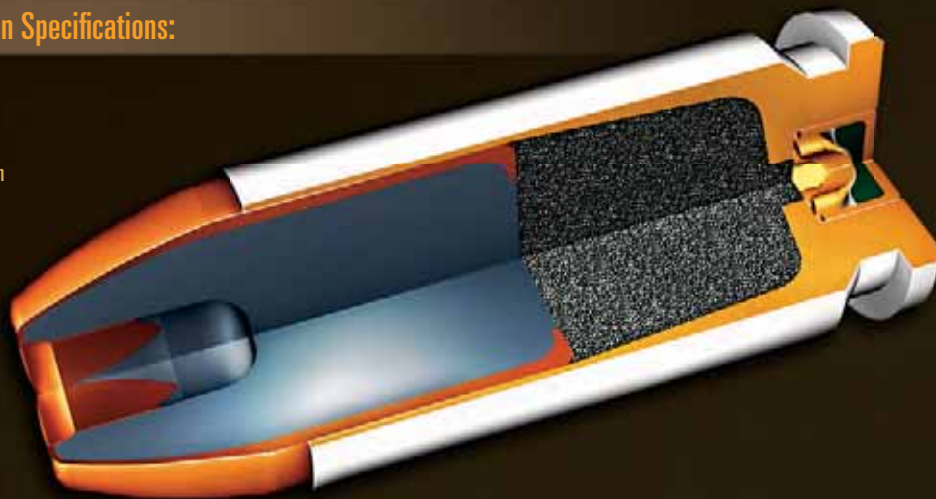
RANGER®



Handgun Ammunition Specifications:

Hollow Point

- Provides consistent expansion through a variety of barriers
- Aids in maximizing upset at both long and short ranges



Copper Alloy Jacket

- Patented reverse taper design helps lock in lead core on impact
- Thick at nose for improved integrity against hard barriers and increased weight retention
- Thin at heel for improved accuracy

Lead Alloy Core

- Lead alloy core for superior accuracy and improved upset performance



Massive Expansion

- Six-segment upset with enhanced strength
- Massive frontal area for stopping power

T SERIES

When a situation unfolds, so does the Ranger® T Series handgun ammunition. With an unbeatable combination of expansion and penetration enhanced by engineered segments in the patented SXT® design, the T Series can be relied on to deliver consistent stopping power in real world situations. Backed by a comprehensive testing and training program, Winchester T Series is ammunition that always performs at its best—even when things are at their worst.



- EXCELLENT STOPPING POWER
- OUTSTANDING PENETRATION, EXPANSION & WEIGHT RETENTION
- SUPERIOR ACCURACY
- WIDER & STRONGER SIX PETAL CONFIGURATION





RANGER®



Handgun Ammunition Specifications:

Hollow Point Cavity

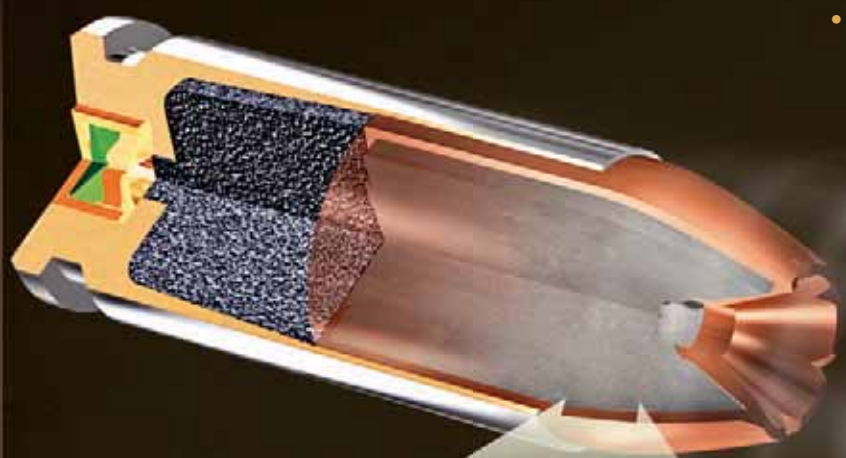
- Designed to work with Winchester's exclusive bonding technology to deliver outstanding performance through the toughest barriers

Lead Core

- Pure lead cores are used for consistent bullet forming and to promote superior accuracy

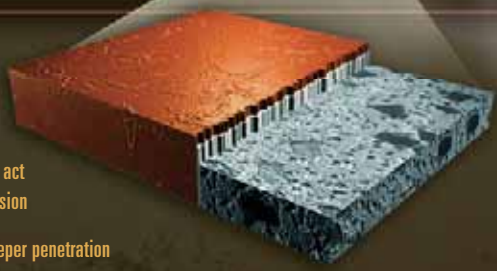
Drawn Copper Alloy Jacket with Profiled Wall Thickness

- Custom jacket wall profile maximizes bullet performance
- Uniform notching helps ensure clean petal performance



Proprietary Bonding Process

- Allows the lead core and jacket to act together as a unit to control expansion
- Greater retained weight means deeper penetration



BONDED

Ranger® Bonded handgun ammunition was specifically created to deliver maximum penetration through the toughest of barriers. This effectiveness is made possible thanks to the Winchester proprietary core/jacket bonding process—and is enhanced with a special hollow point cavity that acts in unison to control expansion, leading to maximum weight retention and deep penetration through hard and abrasive barriers including auto glass. Selected by federal law enforcement agencies for their .40 and 9mm caliber service rounds, the Ranger Bonded gives you the penetration to handle the most serious of threats.



- SUPERIOR PENETRATION
- IDEAL FOR AUTO GLASS OR OTHER ABRASIVE BARRIERS
- PERMANENT CORE/JACKET BOND WITH SPECIAL HOLLOW POINT CAVITY
- OUTSTANDING ACCURACY



WINCHESTER®



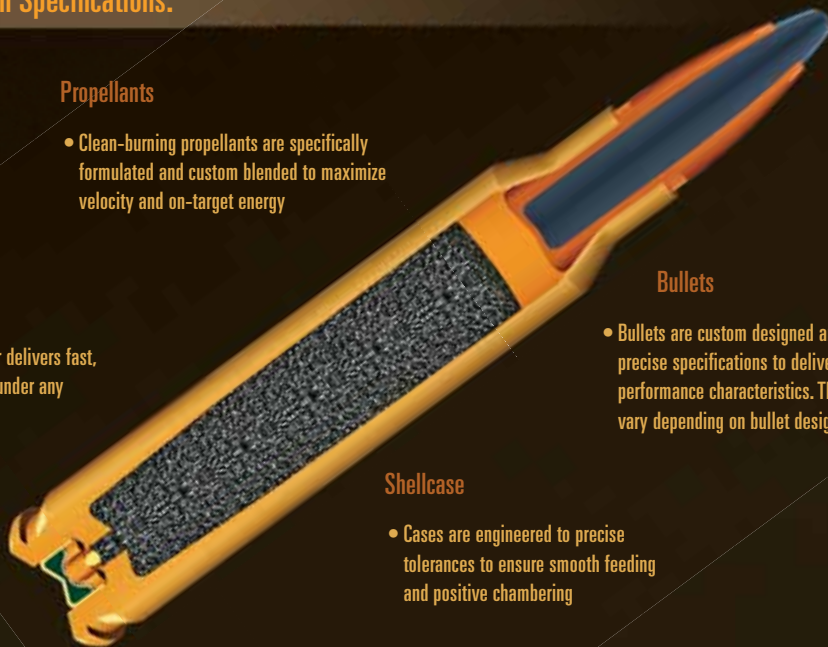
Rifle Ammunition Specifications:

Propellants

- Clean-burning propellants are specifically formulated and custom blended to maximize velocity and on-target energy

Primer

- Non-corrosive primer delivers fast, dependable ignition under any shooting condition



Bullets

- Bullets are custom designed and manufactured to precise specifications to deliver specific on-target performance characteristics. These characteristics vary depending on bullet design

Shellcase

- Cases are engineered to precise tolerances to ensure smooth feeding and positive chambering

CENTERFIRE

When there is no room for error, there is no room for anything but Winchester® Centerfire rifle ammunition. Ready to meet all of your tactical and patrol applications, the extensive Centerfire line-up has you covered.

For critical tactical shots, the Ranger .223 64-grain Power Point bullet or Supreme Elite® .308 with XP3® bullet technology delivers unsurpassed penetration with controlled expansion through glass and tough barrier materials. Need exceptional dependability, consistency and "match-grade" accuracy or maximum stopping power? Then reach for the devastating on-target effect of Ranger® Ballistic Silvertip® and Supreme® Match ammunition featuring the renowned Sierra® Boat Tail Hollow Point (BTHP) bullet.



- MASSIVE STOPPING POWER
- PINPOINT ACCURACY
- WINCHESTER AND NOSLER, INC. COMBINED TECHNOLOGIES® DELIVER UNMATCHED BULLET PERFORMANCE
- EXTENSIVE LINE OF LAW ENFORCEMENT RIFLE AMMUNITION—RANGER®, SUPERCLEAN NT®, SUPREME® AND SUPREME ELITE®





RANGER®

SHOTSHELL

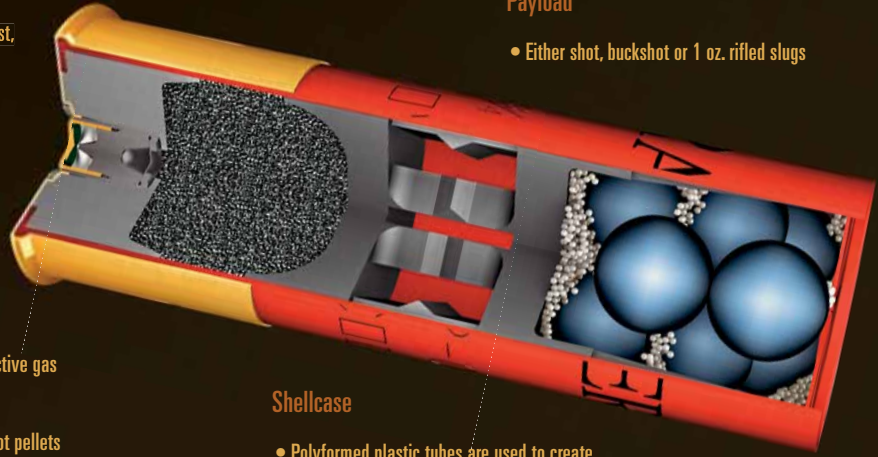
Slugs, Buckshot and Training Ammunition Specifications:

Primer

- Non-corrosive primer delivers fast, dependable ignition under any shooting condition

Payload

- Either shot, buckshot or 1 oz. rifled slugs



Wadding

- Cup and fiber wads provide effective gas pressure seal in slug loads
- Plastic shot cups protect buckshot pellets and provide improved pattern performance for low recoil buckshot loads

Shellcase

- Polyformed plastic tubes are used to create smooth hulls to improve cycling through all shotgun actions

With more than 140 years experience, Winchester® Ranger® shotshells provide a decisive tactical advantage to Law Enforcement officers with tight patterning Buckshot Loads and high accuracy Rifled Hollow Point Slugs and Sabot Slugs.

For all the performance of traditional Ranger loads and slugs without the high power kick, look to Ranger Low Recoil Buckshot Loads and Low Recoil Hollow Point Slugs. These products deliver less shooting fatigue and quick, on-target follow-up shots with clean-burning, low flash powder for reduced night vision loss.

Specifically designed for training requirements, Winchester® AA® & WinLite® Target Loads and Ranger® Non-Toxic Steel Shotshells make the ideal introductory rounds for shotgun familiarization.

- LOW RECOIL BUCKSHOT LOADS DELIVER 30% LESS RECOIL THAN STANDARD LOADS
- LOW RECOIL HOLLOW POINT RIFLED SLUGS PROVIDE CONSISTENT ACCURACY, PENETRATION AND EXPANSION PERFORMANCE
- WINLITE® OFFERS UP TO A 50% REDUCTION IN RECOIL COMPARED TO STANDARD SHOTSHELL ROUNDS
- INSTANT SHOTSHELL IDENTIFICATION: RED INDICATES BUCKSHOT, GRAY INDICATES SLUG





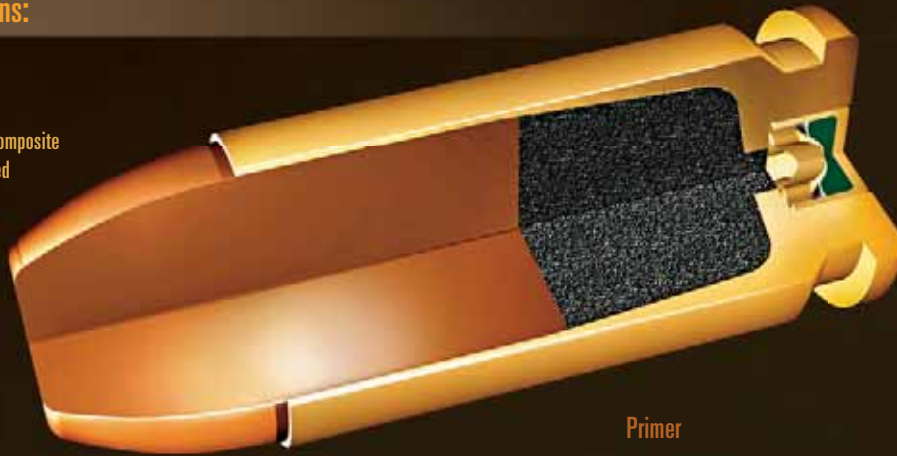
RANGER®



Ammunition Specifications:

Bullet Design

- An exclusive blend of copper/tin composite materials and patented, heat treated metal manufacturing technology results in superior frangibility
- Homogeneous design delivers high accuracy and trajectory matches of conventional leaded training rounds



Propellant

- Winchester clean-burning propellant minimizes residue and fouling in gun actions and barrels

Primer

- Patented, heavy-metal-free primer eliminates airborne lead contamination at the firing point
- Contains no lead, barium, antimony or strontium

FRANGIBLE SF™

Ranger® Frangible SF™ gives military and law enforcement personnel a realistic, reduced hazard option for close quarters training and special purpose applications.

By incorporating totally lead-free-powdered metal projectiles, Ranger Frangible SF handgun, rifle and shotgun ammunition delivers superior frangibility against hard targets and is lethal against soft targets. Since there is no jacket, plating or surface treatment on the projectiles, nothing but fine, low-energy dust particles remain after impact with hard surface targets – reducing ricochet and target backsplash.

- NEXT-GENERATION REDUCED HAZARD AMMUNITION
- FRANGIBLE AGAINST HARD TARGETS
- HEAVY-METAL-FREE PRIMER AND PROJECTILE

	WINCLEAN®	SUPERCLEAN®	FRANGIBLE
AIRBORNE POINT OFF-FIRE LEAD FREE	•	•	•
DOWN RANGE TRAP LEAD FREE	•	•	•
FRANGIBILITY	•	•	•

Ranger® Frangible SF™ Handgun Ammunition

Winchester Ranger® Frangible SF handgun loads give you outstanding accuracy and the same point of impact as duty ammunition at 25 yards, while more closely approximating the "felt recoil" of duty loads compared to other frangible offerings.

Ranger® Frangible SF™ Centerfire Rifle Ammunition

For long distance training and special purpose applications, SF Centerfire rifle ammunition delivers the performance you need without the risk of ricochet, back splatter and airborne heavy-metal particles.

Ranger® Frangible SF™ Buckshot and Slugs

Ranger Frangible SF buckshot loads and multipurpose slugs provide a realistic and reduced hazard option for intensive shotgun familiarization, instruction and training as well as special purpose applications.





WINCHESTER®

Handgun Ammunition

WinClean® handgun ammunition uses Winchester patented lead- and heavy-metal-free primers and features an advanced bullet jacket called the Brass Enclosed Base (or BEB) that completely covers the base and sides of the bullet with a brass jacket. Together these technologies are designed to eliminate airborne lead originating at the firing point. In addition to creating a safer shooting environment, WinClean features a brass case and Winchester legendary performance and reliability.

WinClean creates a benchmark for cleanliness, with less barrel, action and shellcase residue. To the shooter, that means less time cleaning guns and more time on the range.

WINCLEAN®

- LEAD-AND-HEAVY-METAL-FREE PRIMER
- BRASS ENCLOSED BASE ELIMINATES LEAD VAPORIZATION FROM BULLET BASE
- EXCELLENT ACCURACY



WINCHESTER®

Handgun and Rifle Ammunition

SuperClean NT® ammunition takes lead completely out of the equation to create a safer and cleaner shooting environment. The specially designed soft point/tin-core bullet delivers superior accuracy and function in all handguns and rifles—while eliminating the down range equipment and bullet trap contamination associated with standard leaded ammunition.

In addition, SuperClean NT products offer the same point-of-impact and average 85% felt recoil of conventional duty rounds. Add Winchester patented, lead-free heavy-metal-free primers and clean burning propellant, and you have a breakthrough in high performance, non-toxic ammunition.

SUPERCLEAN NT®

- LEAD-FREE TIN CORE BULLET
- LEAD-AND-HEAVY-METAL-FREE PRIMER
- SUPERIOR ACCURACY



	AIRBORNE POINT OF FIRE LEAD FREE	DOWN RANGE TRAP LEAD FREE	FRANGIBILITY
WINCLEAN®	•		
SUPERCLEAN®	•	•	
FRANGIBLE	•	•	•

WINCHESTER®



Real World Results



LAW ENFORCEMENT BALLISTICS WORKSHOP AND TRAINING TOOLS

Knowing the ballistics of the ammunition you choose is critical to your officers' safety and survival. That's why Winchester offers a comprehensive terminal ballistics workshop program for interested Law Enforcement agencies across the country.

Featuring a fleet of specially designed trailers as mobile labs, Winchester representatives conduct and share their knowledge of terminal ballistics performance using industry standard 10% ballistic gelatin and a variety of other real-world barriers.

The Winchester Law Enforcement Ballistics Workshop is a hands-on experience where officers are involved every step of the way. Interesting and informative, we believe any officer involved in the selection of duty ammunition would find it very worthwhile to attend.

To request a Winchester Ranger Ballistics Workshop at your department, or to find the current schedule of events, please contact your local Winchester Law Enforcement Ammunition Distributor or the Winchester Law Enforcement Ammunition website at

www.Winchester.com/lawenforcement



Talk to Our Technical Specialists

Winchester has Law Enforcement Ammunition Technical Specialists to answer any questions you may have. Please contact us directly from 8:00 am to 4:30 pm Central Time, Monday through Friday. You can also write, email or fax us with your questions.

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Law Enforcement Ammunition: Handgun Ballistics

Symbol	Cartridge	Bullet Wt. Grs.	Bullet Type	Velocity (fps)			Energy (ft.-lbs.)		Barrel Length (Inches)	Symbol	Cartridge	Bullet Wt. Grs.	Bullet Type	Velocity (fps)			Energy (ft.-lbs.)		Barrel Length (Inches)
				Muzzle	5 Yds.	25 Yds.	Muzzle	25 Yds.						Muzzle	5 Yds.	25 Yds.	Muzzle	25 Yds.	
Ranger® Bonded Handgun										Subsonic Centerfire Duty Handgun									
RA38B	38 Special +P	130	Bonded	950	946	941	260	249	4V	USA9JHP2	9mm Luger	147	Jacketed Hollow Point	990	985	967	320	305	4
RA357SB	357 SIG	125	Bonded	1350	1331	1262	506	442	4	USA40JHP	40 S&W	180	Jacketed Hollow Point	1010	1004	980	408	384	4
RA9BA	9mm Luger +P	124	Bonded	1180	1169	1126	383	349	4	Super-X® Handgun									
RA9B	9mm Luger	147	Bonded	995	990	970	323	307	4	X25AXP	25 Auto	45	Expanding Point	815	806	770	66	59	2
RA40BA	40 S & W	165	Bonded	1140	1130	1091	476	436	4	X32ASHP	32 Auto	60	Silver Tip Hollow Point	970	962	930	125	115	4
RA40B	40 S & W	180	Bonded	1025	1019	995	420	396	4	X380ASHP	380 Auto	85	Silver Tip Hollow Point	1000	991	958	189	173	3.75
RA45GB	45 G.A.P.	230	Bonded	935	931	914	446	427	5	X38S1P	38 Special	158	Lead Round Nose	755	752	739	200	192	4V
RA45B	45 Auto	230	Bonded	935	931	914	446	427	5	X38S9HP	38 Special	110	Silver Tip Hollow Point	945	940	918	218	206	4V
Ranger® "T" Series Handgun										X38SMRP	38 Special	148	Lead Wad Cutter	710	702	671	166	148	4V
RA380T	380 Auto	95	"T" Series	1000	990	959	211	194	3.75	X38WCPSV	38 Special	158	Lead Semi Wad Cutter	755	751	738	200	191	4V
RA357SIGT	357 SIG	125	"T" Series	1350	1331	1262	506	442	4	X38S7PH	38 Special +P	125	Jacketed Hollow Point	945	940	921	248	235	4V
RA9124TP	9mm Luger +P	124	"T" Series	1180	1169	1126	383	349	4	X38S8HP	38 Special +P	125	Silver Tip Hollow Point	945	940	921	248	235	4V
RA9TA	9mm Luger +P+	127	"T" Series	1250	1236	1183	441	395	4	X38SPD	38 Special +P	158	Lead Semi Wad Cutter HP	890	886	872	278	267	4V
RA9T	9mm Luger	147	"T" Series	990	985	967	320	305	4	X38ASHP	38 Auto +P	125	Silver Tip Hollow Point	1240	1228	1181	427	387	5
RA40TA	40 S & W	165	"T" Series	1140	1129	1091	476	436	4	X923W	9x23 Winchester	125	Silver Tip Hollow Point	1450	1428	1343	583	501	5
RA40T	40 S & W	180	"T" Series	990	987	977	392	381	4	X9MMSHP	9mm Luger	115	Silver Tip Hollow Point	1225	1210	1154	383	340	4
RA45T	45 Auto	230	"T" Series	935	931	914	446	427	5	X9MMST147	9mm Luger	147	Silver Tip Hollow Point	1010	1005	985	333	317	4
RA45TP	45 Auto +P	230	"T" Series	990	985	965	501	475	5	X3576P	357 Magnum	125	Jacketed Hollow Point	1450	1427	1338	583	497	4V
Ranger® Handgun										X357SHP	357 Magnum	145	Silver Tip Hollow Point	1290	1275	1218	535	478	4V
RA38SP	38 Special +P	130	Jacketed Hollow Point	815	812	801	192	185	2V	X3574P	357 Magnum	158	Jacketed Hollow Point	1235	1220	1164	535	475	4V
RA38110HP+	38 Special +P+	110	Jacketed Hollow Point	1155	1142	1094	326	293	4V	X3575P	357 Magnum	158	Jacketed Soft Point	1235	1220	1164	535	475	4V
RA9115HP+	9mm Luger +P+	115	Jacketed Hollow Point	1335	1319	1258	455	404	4	X40SWSTHP	40 S&W	155	Silver Tip Hollow Point	1205	1193	1146	500	452	4
RA9MMJHP	9mm Luger	115	Jacketed Hollow Point	1225	1210	1154	383	340	4	X10MMSTHP	10mm Auto	175	Silver Tip Hollow Point	1290	1273	1209	649	568	5.5
RA9124N	9mm NATO	124	Full Metal Jacket (Ball)	1185	1174	1132	387	352	4	X41MSTHP2	41 Rem Magnum	175	Silver Tip Hollow Point	1250	1235	1180	607	541	6.5V
RA9MM147FMJ	9mm Luger	147	Full Metal Jacket (Flat Nose)	985	980	963	317	303	4	X44MS	44 Magnum	210	Silver Tip Hollow Point	1250	1233	1171	729	639	4V
RA40155HP	40 S & W	155	Jacketed Hollow Point	1210	1195	1148	502	453	4	X45GSTHP	45 G.A.P.	185	Silver Tip Hollow Point	1000	993	967	411	384	5
RA40180HP	40 S & W	180	Jacketed Hollow Point	1020	1015	991	417	392	4	X45ASHP2	45 Auto	185	Silver Tip Hollow Point	1000	993	967	411	384	5
Ranger® Frangible SF™ Handgun										USA Brand Handgun									
RA357SSF	357 SIG	100	Frangible SF	1490	1461	1350	493	405	4	Q4203	25 Auto	50	Full Metal Jacket (Ball)	760	754	733	64	60	2
RA9SF1	9mm Luger +P	90	Frangible SF	1400	1377	1290	392	333	4	Q4255	32 Auto	71	Full Metal Jacket (Ball)	905	900	879	129	122	4
RA9F	9mm Luger +P	100	Frangible SF	1300	1282	1215	375	328	4	Q4206	380 Auto	95	Full Metal Jacket (Flat Nose)	955	949	907	192	174	3.75
RA40SF	40 S & W	135	Frangible SF	1170	1158	1113	410	371	4	Q4205	38 Super Auto +P	130	Full Metal Jacket (Ball)	1215	1202	1152	426	383	5
RA45GSF	45 G.A.P.	175	Frangible SF	1000	994	969	389	365	5	USA38JSP	38 Special	125	Jacketed Hollow Point	945	940	921	248	235	4V
RA45SF	45 Auto	175	Frangible SF	1000	994	969	389	365	5	USA38SP	38 Special	125	Jacketed Soft Point	850	845	826	201	189	4V
WinClean® Handgun										Q4171	38 Special	130	Full Metal Jacket (Ball)	800	796	782	185	177	4V
WC3801	380 Auto	95	BEB Flat Nose	955	947	916	192	177	3.75	Q4196	38 Special	150	Lead Round Nose	845	842	828	238	228	4V
WC381	38 Special	125	BEB JSP	775	774	748	167	155	4V	Q4304	9x23 Winchester	124	Full Metal Jacket (Ball)	1460	1444	1381	587	525	5
WC91	9mm Luger	115	BEB Truncated Cone	1190	1178	1135	362	329	4	Q4172	9mm Luger	115	Full Metal Jacket (Ball)	1190	1176	1125	362	323	4
WC92	9mm Luger	124	BEB Truncated Cone	1130	1120	1081	352	325	4	USA9JHP	9mm Luger	115	Jacketed Hollow Point	1170	1157	1108	350	313	4
WC93	9mm Luger	147	BEB Truncated Cone	990	985	967	320	305	4	USA9JHP2	9mm Luger	147	Jacketed Hollow Point	990	985	967	320	305	4
WC3571	357 Magnum	125	BEB JSP	1370	1350	1275	521	451	4V	USA9MM	9mm Luger	124	Full Metal Jacket (Ball)	1140	1130	1091	358	328	4
WC357SIG	357 SIG	125	BEB Flat Nose	1350	1331	1262	506	442	4	USA9MM1	9mm Luger	147	Full Metal Jacket (Truncated Cone)	990	985	967	320	305	4
WC401	40 S&W	165	BEB Truncated Cone	1130	1121	1089	468	434	4	Q4309	357 SIG	125	Full Metal Jacket (Flat Nose)	1350	1331	1262	506	442	4
WC402	40 S&W	180	BEB Truncated Cone	990	985	965	392	372	4	USA357SJHP	357 SIG	125	Jacketed Hollow Point	1350	1331	1262	506	442	4
WC45G	45 G.A.P.	230	BEB Truncated Cone	875	870	857	391	375	5	Q4204	357 Magnum	110	Jacketed Hollow Point	1295	1271	1183	410	342	4V
WC451	45 Auto	185	BEB Truncated Cone	910	902	870	340	311	5	USA40JHP	40 S&W	180	Jacketed Hollow Point	1010	1004	980	408	384	4
WC452	45 Auto	230	BEB Truncated Cone	875	870	857	391	375	5	USA40SW	40 S&W	165	Full Metal Jacket (Truncated Cone)	1060	1053	1029	412	388	4
Super Clean NT® Handgun										Q4238	40 S&W	180	Full Metal Jacket (Flat Nose)	1025	1018	993	420	394	4
SC9NT	9mm Luger	105	Jacketed Soft Point	1200	1185	1131	336	298	4	Q4240	44 Rem Magnum	240	Jacketed Soft Point	1180	1169	1126	742	676	4V
SC38NT	38 Special	110	Jacketed Soft Point	975	967	938	232	215	4V	USA45G	45 G.A.P.	230	Full Metal Jacket	850	831	817	356	341	5
SC40NT	40 S&W	140	Jacketed Soft Point	1155	1141	1091	415	370	4	USA45GJHP	45 G.A.P.	230	Jacketed Hollow Point	880	876	860	395	378	5
SC45NT	45 Auto	170	Jacketed Soft Point	1050	1042	1014	416	388	5	Q4170	45 Auto	230	Full Metal Jacket (Ball)	835	831	817	356	341	5
										USA45A	45 Auto	185	Full Metal Jacket (Truncated Cone)	910	905	885	340	322	5
										USA45JHP	45 Auto	230	Jacketed Hollow Point	880	876	860	395	378	5



Law Enforcement Ammunition: Rifle Ballistics

Symbol	Bullet Wt.	Bullet Type	Velocity (fps)			Energy (ft. lbs.)			Trajectory (inches)	
			Muzzle	50 yds.	100 yds.	Muzzle	50 yds.	100 yds.	50 yds.	100 yds.
Supreme® Elite										
SXP308	150	XP3	2825	2719	2616	2658	2463	2279	-0.2	0
Supreme®										
S308M	168	BTHP	2680	2581	2485	2680	2485	2303	-0.1	0
Ranger® .223 Nosler® Partition®										
Q3283 *14.5" Barrel	60	Nosler Partition	2770	2557	2351	1024	871	737	-0.6	0
Ranger® Frangible SF™										
RA223SF	55	Frangible SF	3150	2782	2442	1212	945	728	-0.2	0
Ranger®										
RA556M855	62	Penetrator	3095	2950	2810	1318	1189	1087	-0.3	0
RA223BSTA	55	Ballistic Silvertip	3240	3051	2871	1282	1136	1006	-0.3	0
RA223R	55	Pointed Soft Point	3240	2986	2747	1282	1089	921	-0.3	0
RA223R2	64	Power-Point	3020	2816	2621	1296	1127	976	-0.2	0
RA223M	69	BTHP	3060	2853	2740	1435	1248	1151	-0.2	0
Super Clean NT®										
SC556NT	55	Jacketed Soft Point	3090	2759	2457	1161	930	737	-0.2	0

Symbol	Bullet Wt.	Bullet Type	Bare Gelatin	Heavy Cloth	Steel	Wallboard	Plywood	Auto glass	Gelatin %
Rifle Barrier Penetration Data (inches)									
RA223R	55	PSP	9.75	9.8	7.7	8.05	8.90	3.5	10%
RA223BSTA	55	BST	12	13	6	8	13.5	9.5	10%
Q3131A	55	FMJ	12	15	9	6	6	2.5	10%
USA2232	45	JHP	4.5	4.5	3	4.25	4.5	1.75	10%
RA223M	69	BTHP	9	10.25	6.75	6.5	9.5	2	10%
RA223R2	64	PP	13	13.25	12.5	11.25	11.75	5	10%
SC556NT	55	JSP	15.6	14.3	11.5	13.3	15.1	9.4	10%
Q3283	60	Partition	17.4	17.3	16.0	15.3	16.2	16.4	10%
SBST308A	168	BST	14.3	17	9.6	11.7	13.2	9	20%
S308M	168	BTHP	17	20	9.0	12.5	14	10	20%
SXP308	150	XP3	26.5	27.2	27.4	27.5	33	27.4	10%

Law Enforcement Ammunition: Shotgun Ballistics

Symbol	Shell Length	Pellet Size	Pellet Count	Rounds per box	Velocity (fps)	Energy @ 3 ft
Ranger® Buckshot						
RA12008 (Low-Recoil)	2 3/4"	00 Buck	8	25	1145	1190
RA120085 (Low-Recoil)	2 3/4"	00 Buck	8	5	1145	1190
RA1200 (Low-Recoil)	2 3/4"	00 Buck	9	25	1145	1335
RA12005 (Low-Recoil)	2 3/4"	00 Buck	9	5	1145	1335
RA1200HD	2 3/4"	00 Buck	9	25	1325	1790
Ranger® Frangible SF™ Buckshot						
RA1200SF Frangible SF	2 3/4"	00 Buck	9	25	1300	1180
Super-X® Buckshot						
XB12000	2 3/4"	000 Buck	8	-	1325	2090
XB1200	2 3/4"	00 Buck	9	-	1325	1825
XB121	2 3/4"	1 Buck	16	-	1250	1915
XB124	2 3/4"	4 Buck	27	-	1325	2090
XB1231 (Magnum)	3"	1 Buck	24	-	1040	1990
XB12300 (Magnum)	3"	00 Buck	15	-	1210	2490
Supreme® Buckshot						
X12XC0B5	2 3/4"	00 Buck	12	-	1295	2260

Symbol	Shell Length	Slug Weight	Slug Type	Velocity (fps)	Energy @ 3 ft
Ranger® Slugs					
RA12RS15 (Low-Recoil)	2 3/4"	1 oz.	H.P. Foster	1200	1400
Ranger® Frangible SF™ Slugs					
RA12RSSF Frangible SF	2 3/4"	375 grs.	Frangible SF	1275	1355
Super-X® Slugs					
X12RS15	2 3/4"	1 oz.	H.P. Foster	1600	2490

Symbol	Shell Length	Powder Dram Equivalent	Velocity fps @ 3 ft.	Oz. Shot	Shot Sizes
Shotshell Training Rounds					
AA12FL	2 3/4"	2 1/2	980	26 gram	8
TRGT12M	2 3/4"	3	1200	1 1/8	7.5, 8
TRGT12	2 3/4"	2 3/4	1145	1 1/8	7.5, 8
XPERT® Non-Toxic Steel Shotshell—Non Frangible					
WE12GTH	2 3/4"	3 1/4	1280	1 1/8	6, 7
WE12GT	2 3/4"	3 1/4	1325	1	6, 7

Symbol	Velocity (fps)	10% Gelatin 25 yd. penetration	Pattern or Group	Recoil ft. lbs. with 8lb. gun
Law Enforcement Shotgun Performance Data				
X12RS15	1600	12.4"	2" 40 yds.	29.1
RA12RS15	1200	18.6"	2" 40 yds.	15.6
RA1200HD	1325	15.8"	12" 25 yds.	23.1
RA12005	1145	15.7"	11" 25 yds.	15.8
RA120085	1145	15.7"	10" 25 yds.	13.4



Handgun Bullet Barrier Testing Protocol





































































The Ballistic Properties and terminal effectiveness of Winchester Law Enforcement Ammunition are monitored and controlled throughout the manufacturing, quality control and test process. All testing is performed in the Winchester laboratories using strict industry guidelines.

POLICE LINE DO NOT CROSS

*Expanded bullets shown are NOT TO SCALE.

*All ammunition fired from test barrels for muzzle velocity.

CARTRIDGE	Bare Gelatin	Heavy Cloth
380 T-Series – 95gr. RA380T/Muzzle Velocity (fps)—1000	 Penetration : 7.65" Expansion : 0.65" Retain Wt. : 86 % Retain Wt. : 82 gr.	 Penetration : 7.85" Expansion : 0.64" Retain Wt. : 97 % Retain Wt. : 92 gr.
38 Special +P Bonded – 130gr. RA38B/Muzzle Velocity (fps)—950	 Penetration : 11.5" Expansion : 0.623" Retain Wt. : 100 % Retain Wt. : 130 gr.	 Penetration : 11.3" Expansion : 0.617" Retain Wt. : 100 % Retain Wt. : 130 gr.
9mm +P T-Series – 124gr. RA9124TP/Muzzle Velocity (fps)—1180	 Penetration : 11.4" Expansion : 0.780" Retain Wt. : 95 % Retain Wt. : 117.8 gr.	 Penetration : 13.2" Expansion : 0.775" Retain Wt. : 98 % Retain Wt. : 122.1 gr.
9mm +P+ T-Series – 127gr. RA9TA/Muzzle Velocity (fps)—1250	 Penetration : 14.3" Expansion : 0.680" Retain Wt. : 92 % Retain Wt. : 116.7 gr.	 Penetration : 14.4" Expansion : 0.703" Retain Wt. : 93 % Retain Wt. : 118 gr.
9mm T-Series – 147gr. RA9T/Muzzle Velocity (fps)—990	 Penetration : 13.9" Expansion : 0.65" Retain Wt. : 96 % Retain Wt. : 141 gr.	 Penetration : 14" Expansion : 0.66" Retain Wt. : 97 % Retain Wt. : 143 gr.
9mm Bonded – 147gr. RA9B/Muzzle Velocity (fps)—995	 Penetration : 14.7" Expansion : 0.62" Retain Wt. : 99.3 % Retain Wt. : 146 gr.	 Penetration : 15.8" Expansion : 0.58" Retain Wt. : 99.4 % Retain Wt. : 146 gr.
9mm +P Bonded – 124gr. RA9BA/Muzzle Velocity (fps)—1180	 Penetration : 12.6" Expansion : 0.68" Retain Wt. : 100 % Retain Wt. : 124 gr.	 Penetration : 18.2" Expansion : 0.56" Retain Wt. : 100 % Retain Wt. : 124 gr.
357 SIG Bonded – 125gr. RA357SB/Muzzle Velocity (fps)—1350	 Penetration : 12.5" Expansion : 0.576" Retain Wt. : 100 % Retain Wt. : 125 gr.	 Penetration : 12.0" Expansion : 0.684" Retain Wt. : 100 % Retain Wt. : 125 gr.
357 SIG T-Series – 125gr. RA357SIGT/Muzzle Velocity (fps)—1350	 Penetration : 12.3" Expansion : 0.632" Retain Wt. : 90 % Retain Wt. : 113 gr.	 Penetration : 14" Expansion : 0.680" Retain Wt. : 91 % Retain Wt. : 113.9 gr.
40 Cal. T-Series – 180gr. RA40T/Muzzle Velocity (fps)—990	 Penetration : 13.8" Expansion : 0.608" Retain Wt. : 91 % Retain Wt. : 164 gr.	 Penetration : 13.4" Expansion : 0.640" Retain Wt. : 95 % Retain Wt. : 171 gr.
40 Cal. Bonded – 180gr. RA40B/Muzzle Velocity (fps)—1025	 Penetration : 13.2" Expansion : 0.679" Retain Wt. : 100 % Retain Wt. : 180 gr.	 Penetration : 13.9" Expansion : 0.689" Retain Wt. : 100 % Retain Wt. : 180 gr.
40 Cal. S&W T-Series – 165gr. RA40TA/Muzzle Velocity (fps)—1140	 Penetration : 13.2" Expansion : 0.799" Retain Wt. : 99 % Retain Wt. : 163.3 gr.	 Penetration : 14.2" Expansion : 0.828" Retain Wt. : 99 % Retain Wt. : 164.5 gr.
40 Cal. Bonded – 165gr. RA40BA/Muzzle Velocity (fps)—1140	 Penetration : 13.8" Expansion : 0.613" Retain Wt. : 100 % Retain Wt. : 165 gr.	 Penetration : 14" Expansion : 0.688" Retain Wt. : 100 % Retain Wt. : 165 gr.
45 G.A.P. Bonded – 230gr. RA45GB/Muzzle Velocity (fps)—935	 Penetration : 12.1" Expansion : 0.845" Retain Wt. : 100 % Retain Wt. : 230 gr.	 Penetration : 12.2" Expansion : 0.840" Retain Wt. : 100 % Retain Wt. : 230 gr.
45 Auto T-Series – 230gr. RA45T/Muzzle Velocity (fps)—935	 Penetration : 11.3" Expansion : 1.017" Retain Wt. : 100 % Retain Wt. : 230 gr.	 Penetration : 11.9" Expansion : 1.012" Retain Wt. : 100 % Retain Wt. : 230 gr.
45 Auto Bonded – 230gr. RA45B/Muzzle Velocity (fps)—935	 Penetration : 12.1" Expansion : 0.845" Retain Wt. : 100 % Retain Wt. : 230 gr.	 Penetration : 12.2" Expansion : 0.840" Retain Wt. : 100 % Retain Wt. : 230 gr.
45 +P Auto T-Series – 230gr. RA45TP/Muzzle Velocity (fps)—990	 Penetration : 11.8" Expansion : 0.936" Retain Wt. : 99 % Retain Wt. : 228 gr.	 Penetration : 12.7" Expansion : 0.926" Retain Wt. : 99 % Retain Wt. : 228.2 gr.

Wallboard	Plywood	Steel	Auto Glass
 Penetration : 15" Expansion : 0.36" Retain Wt. : 99 % Retain Wt. : 94 gr.	 Penetration : 15.5" Expansion : 0.36" Retain Wt. : 96 % Retain Wt. : 91 gr.	 Penetration : 9.3" Expansion : 0.36" Retain Wt. : 98 % Retain Wt. : 93 gr.	 Penetration : 4.5" Expansion : NA Retain Wt. : 81 % Retain Wt. : 77 gr.
 Penetration : 10.1" Expansion : 0.592" Retain Wt. : 100 % Retain Wt. : 130 gr.	 Penetration : 15.2" Expansion : 0.477" Retain Wt. : 100 % Retain Wt. : 130 gr.	 Penetration : 11.3" Expansion : 0.526" Retain Wt. : 100 % Retain Wt. : 130 gr.	 Penetration : 9.3" Expansion : 0.515" Retain Wt. : 85.3 % Retain Wt. : 111 gr.
 Penetration : 11.6" Expansion : 0.795" Retain Wt. : 99% Retain Wt. : 122.5 gr.	 Penetration : 13.3" Expansion : 0.742" Retain Wt. : 94 % Retain Wt. : 116.2 gr.	 Penetration : 19.5" Expansion : 0.400" Retain Wt. : 100 % Retain Wt. : 124 gr.	 Penetration : 11.3" Expansion : 0.505" Retain Wt. : 67 % Retain Wt. : 82.7 gr.
 Penetration : 11.5" Expansion : 0.735" Retain Wt. : 100 % Retain Wt. : 127 gr.	 Penetration : 12.3" Expansion : 0.750" Retain Wt. : 97 % Retain Wt. : 122.9 gr.	 Penetration : 22.7" Expansion : 0.393" Retain Wt. : 100 % Retain Wt. : 127 gr.	 Penetration : 9.7" Expansion : 0.519" Retain Wt. : 61 % Retain Wt. : 77.6 gr.
 Penetration : 15" Expansion : 0.67" Retain Wt. : 98 % Retain Wt. : 144 gr.	 Penetration : 14.8" Expansion : 0.62" Retain Wt. : 100 % Retain Wt. : 147 gr.	 Penetration : 17" Expansion : 0.45" Retain Wt. : 100 % Retain Wt. : 147 gr.	 Penetration : 10.8" Expansion : 0.52" Retain Wt. : 72 % Retain Wt. : 106 gr.
 Penetration : 16.7" Expansion : 0.56" Retain Wt. : 100 % Retain Wt. : 147 gr.	 Penetration : 16.5" Expansion : 0.59" Retain Wt. : 100 % Retain Wt. : 147 gr.	 Penetration : 19" Expansion : 0.42" Retain Wt. : 100 % Retain Wt. : 147 gr.	 Penetration : 12.6" Expansion : 0.55" Retain Wt. : 91.6 % Retain Wt. : 135 gr.
 Penetration : 11.9" Expansion : 0.64" Retain Wt. : 100 % Retain Wt. : 124 gr.	 Penetration : 15.8" Expansion : 0.57" Retain Wt. : 100 % Retain Wt. : 124 gr.	 Penetration : 22" Expansion : 0.42" Retain Wt. : 100 % Retain Wt. : 124 gr.	 Penetration : 12.7" Expansion : 0.58" Retain Wt. : 83.7 % Retain Wt. : 104 gr.
 Penetration : 13.1 Expansion : 0.707" Retain Wt. : 100 % Retain Wt. : 125 gr.	 Penetration : 16" Expansion : 0.487" Retain Wt. : 100 % Retain Wt. : 125 gr.	 Penetration : NA Expansion : NA Retain Wt. : NA Retain Wt. : NA	 Penetration : 11.0" Expansion : 0.613" Retain Wt. : 76.0 % Retain Wt. : 95 gr.
 Penetration : 12.7" Expansion : 0.775" Retain Wt. : 98 % Retain Wt. : 122.5 gr.	 Penetration : 11.8" Expansion : 0.770" Retain Wt. : 92 % Retain Wt. : 115.3 gr.	 Penetration : 21.5" Expansion : 0.423" Retain Wt. : 100 % Retain Wt. : 125 gr.	 Penetration : 11.7" Expansion : 0.448" Retain Wt. : 62 % Retain Wt. : 77.3 gr.
 Penetration : 13.1" Expansion : 0.660" Retain Wt. : 98 % Retain Wt. : 176 gr.	 Penetration : 15.1" Expansion : 0.640" Retain Wt. : 99 % Retain Wt. : 178 gr.	 Penetration : 17.0" Expansion : 0.520" Retain Wt. : 99 % Retain Wt. : 178 gr.	 Penetration : 12.0" Expansion : 0.610" Retain Wt. : 85 % Retain Wt. : 153 gr.
 Penetration : 13.3" Expansion : 0.689" Retain Wt. : 100 % Retain Wt. : 180 gr.	 Penetration : 14.6" Expansion : 0.683" Retain Wt. : 100 % Retain Wt. : 180 gr.	 Penetration : 17.3" Expansion : 0.513" Retain Wt. : 100 % Retain Wt. : 180 gr.	 Penetration : 14.8" Expansion : 0.588" Retain Wt. : 90 % Retain Wt. : 162.6 gr.
 Penetration : 11.4" Expansion : 0.814" Retain Wt. : 99 % Retain Wt. : 164.8 gr.	 Penetration : 13" Expansion : 0.825" Retain Wt. : 99 % Retain Wt. : 164.7 gr.	 Penetration : 21.3" Expansion : 0.451" Retain Wt. : 100 % Retain Wt. : 165 gr.	 Penetration : 12" Expansion : 0.521" Retain Wt. : 75.3 % Retain Wt. : 124.2 gr.
 Penetration : 12.5" Expansion : 0.701" Retain Wt. : 100 % Retain Wt. : 165 gr.	 Penetration : 14.3" Expansion : 0.693" Retain Wt. : 100 % Retain Wt. : 165 gr.	 Penetration : 17.6" Expansion : 0.514" Retain Wt. : 100 % Retain Wt. : 165 gr.	 Penetration : 12.4" Expansion : 0.588" Retain Wt. : 88 % Retain Wt. : 145.3 gr.
 Penetration : 13.3" Expansion : 0.768" Retain Wt. : 100 % Retain Wt. : 230 gr.	 Penetration : 16.1" Expansion : 0.725" Retain Wt. : 100 % Retain Wt. : 230 gr.	 Penetration : 19.1" Expansion : 0.540" Retain Wt. : 100 % Retain Wt. : 230 gr.	 Penetration : 11.9" Expansion : 0.615" Retain Wt. : 86 % Retain Wt. : 197.4 gr.
 Penetration : 14.1" Expansion : 0.828" Retain Wt. : 100 % Retain Wt. : 230 gr.	 Penetration : 13.2" Expansion : 0.835" Retain Wt. : 100 % Retain Wt. : 230 gr.	 Penetration : 21.1" Expansion : 0.461" Retain Wt. : 100 % Retain Wt. : 230 gr.	 Penetration : 13.2" Expansion : 0.611" Retain Wt. : 99 % Retain Wt. : 226.3 gr.
 Penetration : 13.3" Expansion : 0.768" Retain Wt. : 100 % Retain Wt. : 230 gr.	 Penetration : 16.1" Expansion : 0.725" Retain Wt. : 100 % Retain Wt. : 230 gr.	 Penetration : 19.1" Expansion : 0.540" Retain Wt. : 100 % Retain Wt. : 230 gr.	 Penetration : 11.9" Expansion : 0.615" Retain Wt. : 86 % Retain Wt. : 197.4 gr.
 Penetration : 12.3" Expansion : 1.039" Retain Wt. : 100 % Retain Wt. : 230 gr.	 Penetration : 12.2" Expansion : 1.010" Retain Wt. : 99 % Retain Wt. : 228.7 gr.	 Penetration : 25.2" Expansion : 0.461" Retain Wt. : 100 % Retain Wt. : 230 gr.	 Penetration : 11.7" Expansion : 0.645" Retain Wt. : 90 % Retain Wt. : 207.2 gr.



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