



BPI LOAD GUIDE:

# 10GA REMINGTON HULLS

[WWW.BALLISTICPRODUCTS.COM](http://WWW.BALLISTICPRODUCTS.COM)

## REMINGTON 10GA 3-1/2" UNPRIMED HULLS

Remington 10ga 3-1/2" unprimed hulls - ribbed tube, plastic-disc base. A very tough hull that will last for many loadings. The mouth of these hulls is thick and **unskived**. Plan on either roll crimping them or skiving them with a Power Skiver before loading.

**SHIPPING:** These hulls are unprimed and do not have any hazmat shipping restrictions.

### HULL SPECIFICATIONS:

- Length: 3.519"
- Depth: 3.247"
- Brass Height: 20mm
- Product Type: Hull, 10-gauge 3-1/2", unprimed, unskived
- Typical Loads: Heavy magnum field loads



LOAD ID	GA.	HULL	PRIMER	POWDER	POWDER GRNS.	GAS SEAL	WAD	FILLER WADS & LOAD INSERTS	OVER SHOT	SHOT (OZ.)	SHOT (GRNS.)	SHOT SIZE	BUFFER (GRAINS)	PSI	FPS
<b>10-GAUGE • 3-1/2" LENGTH • LEAD SHOT • FOLD CRIMP</b>															
230425-1252RCH	10	Remington	Ched 209	Longshot	43.9		BPD10	(3) 14CW12 in base	OS10	1 1/2	656	Lead	12 gr Original	10000	1430
60728-1252Rem	10	Remington	Win209	Longshot	46.0		BPD10	(3) 14CW12 in base	OS10	1 1/2	656	Lead	12 gr Original	10300	1500
230425-1261RCH	10	Remington	Ched 209	Longshot	43.0		BPD10	(3) 14CW12 in base	OS10	1 5/8	710	Lead	12 gr Original	9800	1395
60320-1261Rem	10	Remington	Win209	Longshot	45.0		BPD10	(3) 14CW12 in base	OS10	1 5/8	710	Lead	12 gr Original	9900	1465
790501-EL	10	Remington	Rem209P	Blue Dot	40.0		BPD10	14FW20 in base	OS10	1 3/4	765	Lead	12 gr Original	10500	1200
230425-1638L	10	Remington	Ched 209	Blue Dot	40.2		TPS1035	(2) 14FW20 in base		1 3/4	765	Lead		10000	1220
91130-1638LCH	10	Remington	Ched 209	Blue Dot	40.8		TPS1035	(2) 14FW20 in base		1 3/4	765	Lead		10200	1250
230425-1244LRCH	10	Remington	Ched 209	Longshot	40.4		BPD10	(3) 14CW12 in base	OS10	1 3/4	765	Lead	12 gr Original	10200	1290
60825-1244LRem	10	Remington	Win209	Longshot	41.0		BPD10	(3) 14CW12 in base	OS10	1 3/4	765	Lead	12 gr Original	10500	1345
<b>10-GAUGE • 3-1/2" LENGTH • BISMUTH SHOT • FOLD CRIMP</b>															
230425-11618C	10	Remington	Ched 209	Longshot	42.5	X10X	BP1044	(2) 14FW20 in base	OS10	1 3/8	602	Bismuth	18 gr BSB	10300	1415
230425-11636C	10	Remington	Ched 209	Blue Dot	39.0	NC10	BP1044	18FW20 in base	OS10	1 3/4	765	Bismuth	18 gr BSB	8100	1170
<b>10-GAUGE • 3-1/2" LENGTH • STEEL SHOT • FOLD CRIMP</b>															
91012-CH1462L	10	Remington	Ched 209	Blue Dot	44.5		TPS1035	(2) 14FW20 in base	N710	1 1/4	546	Steel #TT	10 gr Mix #47	10500	1410
91012-CH1458L	10	Remington	Ched 209	HS-6	40.6	NC10	TPS1035	(2) 14FW20 in base	OS10	1 1/4	546	Steel #TT		10500	1490
230620-11861	10	Remington	Ched209	Longshot	37.1	N710	TPS1035	(2) 14FW20 in base	OS10	1 1/4	546.9	Steel #T		7500	1392
230620-11860	10	Remington	Ched209	Longshot	38.6	N710	TPS1035	(2) 14FW20 in base	OS10	1 1/4	546.9	Steel #T		8850	1463
230620-11862	10	Remington	Ched 209	Longshot	40.1	N710	TPS1035	(2) 14FW20 in base	OS10	1 1/4	546	Steel #T		10700	1485
91012-CH1460	10	Remington	Ched 209	Blue Dot	40.1		TPS1035	18FW20 in base	N710	1 1/2	656	Steel #TT		10200	1275
91009-CH1446	10	Remington	Ched 209	Steel	38.2		TPS1035	14FW20 in base	OS10	1 1/2	656	Steel #B	12 gr Mix #47	9800	1350
91012-CH1467	10	Remington	Ched 209	Blue Dot	43.9		TPS1035	14FW20 in base	N710	1 3/8	601	Steel #TT		10250	1400

**WARNING: BALLISTIC PRODUCTS, INC. DISCLAIMS ALL POSSIBLE LIABILITY FOR DAMAGES, INCLUDING ACTUAL, INCIDENTAL, AND CONSEQUENTIAL, RESULTING FROM USAGE OF INFORMATION OR ADVICE CONTAINED IN THIS AND OTHER PUBLICATIONS, LABELS, CATALOGS, TESTING REPORTS AND BOOKLETS. USE DATA AND ADVICE AT YOUR OWN RISK AND WITH CAUTION. WHERE DATA LIST SPECIFIC COMPONENTS, NO CHANGES OR SUBSTITUTIONS FOR THESE COMPONENTS CAN BE MADE WITHOUT RISKING SIGNIFICANT CHANGES IN THE LEVEL OF BALLISTIC PERFORMANCE AND/OR SAFETY OF THE LOADS SHOWN. FOLLOW LOADING DATA EXACTLY AND DO NOT SUBSTITUTE COMPONENTS. WE MAKE NO WARRANTIES EXPRESS OR IMPLIED, LIMITED OR FULL, AND WE DISCLAIM ANY SUCH WARRANTIES. FAILURE TO COMPLY WITH THESE AND OTHER STANDARDS OF RELOADING MAY RESULT IN ACCIDENTS WITH SERIOUS INJURY AND/OR DEATH TO THE SHOOTER AND/OR BYSTANDERS. KEEP OUT OF REACH OF CHILDREN. WE DISCLAIM ANY AND ALL LIABILITY FOR DAMAGE OR INJURY THAT MAY RESULT FROM YOUR HANDLOADED SHOTSHELLS AS WE HAVE NO CONTROL OVER ANY OF THE NUMEROUS POSSIBLE VARIATIONS IN COMPONENT PRODUCTION LOTS, IN TOOL AND DIE DIMENSIONS, IN YOUR LOADING PRACTICES AND PROCEDURES. THE INDIVIDUAL RELOADER IS SOLELY RESPONSIBLE FOR ANY VARIATION THAT MAY BE INCURRED BY ASSEMBLED AMMUNITION. TO AVOID SERIOUS INJURY OR DEATH TO SHOOTER AND BYSTANDERS, THIS PRODUCT SHOULD ONLY BE USED IN GUNSMITH-INSPECTED GUNS DESIGNED FOR MODERN SHOTSHELLS. IF GUN FAILS TO FIRE, KEEP POINTED IN SAFE DIRECTION FOR 30 SECONDS, THEN UNLOAD CAREFULLY. WEAR EYE AND EAR PROTECTION AND OBSERVE PROPER GUN SAFETY AT ALL TIMES. ALL PRODUCTS SOLD "AS IS".**

# Component Abbreviation Chart

+ .....	load tested w / specified shot size and larger .....	na	CS12 .....	Competition Special wad, 12ga .....	#072CS12	International Clays.....	Hodgdon International Clays powder .....	#081020*
- .....	load tested w / specified shot size and smaller.....	na	CS12S .....	Competition Special Short wad, 12ga.....	#072CS12S	ITX Original-10™.....	ITX Original-10™ non-toxic shot.....	#TX**
.410 Thug Slug .....	8 gram Thug Slug, .410 .....	#1264100	CSD020.....	Cushioned Shot Driver, 20ga .....	#0207020	ITX Extreme-13™.....	ITX Extreme Turkey Trauma-13™ non-toxic shot #TXTT**	
10MMW* .....	10mm waxed card wad (*relevant gauge) ..	#10MMW**	CSD078.....	.7/8oz. Cushioned Shot Driver, 12ga .....	#0207078	L078 .....	Lightning 7/8oz. wad, 12ga.....	#020L078
12ga 1 oz. Thug Slug .....	1 oz. Thug Slug, 12ga .....	#1261228	CSD100.....	1 oz. Cushioned Shot Driver, 12ga .....	#0207100	LB12 .....	Light Brush wad, 12ga .....	#072LB12
12ga 1 1/8oz. Thug Slug .....	1 1/8oz. Thug Slug, 12ga .....	#1261232	CSD118.....	1 1/8oz. Cushioned Shot Driver, 12ga .....	#0207118	LBC Sabot Slug.....	LBC Sabot Slug, 12ga .....	#0721610
14C* .....	1/4" card wad (*relevant gauge) .....	#14C**	CSD114.....	1 1/4 oz. Cushioned Shot Driver, 12ga .....	#0207114	LBC30.....	30mm Limited Bore Contact wad, 12ga.....	#0729030
14CW* .....	1/4" cork wad (*relevant gauge).....	#12224**	CSD16.....	.7/8oz. Cushioned Shot Driver, 16ga .....	#0207016	LBC43.....	43mm Limited Bore Contact wad, 12ga.....	#0729043
14FW* .....	1/4" felt wad (*relevant gauge).....	#12214**	CTX Copper/Frangible .....	.3/4oz. CTX Frangible Slug, 12ga .....	#336CTX12	LBC50.....	50mm Limited Bore Contact wad, 12ga.....	#0729050
18CW* .....	1/8" cork wad (*relevant gauge).....	#12228**	D20 .....	Vectan / Nobel Sport D20 powder.....	#NBD201	Lee Drive-Key Slug, 7/8oz. Lee Drive-Key Slug, 12ga 7/8oz .....	#LEE90282	
18FW* .....	1/8" felt wad (*relevant gauge).....	#12218**	Dangerous Game Slug.....	Dangerous Game Slug .....		Lee Drive-Key Slug, 1 oz. Lee Drive-Key Slug, 12ga 1 oz. ....	#LEE90281	
20ga 7/8oz. Thug Slug .....	7/8oz. Thug Slug, 20ga .....	#1262025	Dangerous Game Slug.....	Dangerous Game Slug .....		Light Game Slug .....	Light Game Slug .....	
206V .....	Vectan / Nobel Sport 206V powder.....	#NB206V1	12ga.....		#0721612	28ga.....		#0721628
38C* .....	3/8" card wad (*relevant gauge) .....	na	16ga.....		#0721616	.410.....		#0721641
38W* .....	3/8" waxed card wad (*relevant gauge).....	#38W**	20ga .....		#0721620	Lil' Gun.....	Hodgdon Lil' Gun powder .....	#081120*
700X.....	Hodgdon Hi-Skor 700-X powder .....	#090700*	DGS Thunderbolt Slug.....	"Thunderbolt" Dangerous Game Slug, 12ga .....	#0721613	Longshot.....	Hodgdon Longshot powder .....	#081050*
800X .....	Hodgdon Hi-Skor 800-X powder .....	#090800*	DX12.....	Dispensor-X wad, 12ga .....	#072DX12	MG410.....	MG410 wad, .410 .....	#072MG410
A0 .....	Vectan / Nobel Sport A0 powder .....	na	DX12S.....	Dispensor-X Short wad, 12ga.....	#072DX12S	MG42 .....	MG42 Wad, 12ga .....	#072MG42
A1.....	Vectan / Nobel Sport A1 powder.....	#NBA11	DX20 .....	Dispensor-X wad, 20ga.....	#072DX20	Mica .....	Mica Wad Slick Lubricant.....	#MICA
A24 .....	Vectan / Nobel Sport A24 powder.....	na	E3 .....	Alliant E-3 powder .....	#018333*	MM1035.....	Multi-Metal 3 1/2" wad, 10ga.....	na
AA Sup. Handicap .....	Winchester Super Handicap powder.....	#235SH0*	EML.....	European Mighty Lite, 12ga.....	#072EML	MM1230.....	Multi-Metal 3" wad, 12ga.....	na
Accurate 4100 .....	Accurate 4100 powder .....	na	FC* .....	1/2" fiber card (*relevant gauge) .....	#FC**	MM1235.....	Multi-Metal 3 1/2" wad, 12ga.....	na
Alliant 20/28.....	Alliant 20/28 powder .....	#0182028*	Fed209A.....	Federal 209A primer .....	#209A	MM1275.....	Multi-Metal 2 3/4" wad, 12ga.....	na
Alliant 2400 .....	Alliant 2400 powder .....	#0182400	Federal.....	Federal hull.....	#062****	MY1620.....	16-20ga Mylar™ wraps .....	#MY1620
Alliant 410.....	Alliant 410 powder .....	#018410*	Federal (paper).....	Federal paper hull.....	#FPAP121	MYTHICK.....	Thick Mylar™ wraps .....	#MYTHICK
American Select.....	Alliant American Select powder .....	#018040*	Federal FB.....	Federal hull (fiber basewad).....	na	MYTHIN.....	Thin Mylar™ wraps .....	#MYTHIN
AQT2 .....	NobelSport-Cheddite AQT2 wad .....	#139AQT2	Federal PB.....	Federal hull (plastic basewad).....	na	MYSLIM.....	Slim Mylar™ wraps .....	#MYSLIM
AS .....	Vectan / Nobel Sport AS powder .....	#NBAS1	Fio616 .....	Fiocchi 616 primer .....	#F616	N209.....	NobelSport 209 primer .....	#N209
Blue Dot.....	Alliant Blue Dot powder.....	#018080*	Fiocchi.....	Fiocchi hull.....	#064****	N7* .....	Mini Nitro Card (*relevant gauge) .....	#N7**
BP12.....	BP12 wad, 12ga .....	#3221203	Fiocchi (paper).....	Fiocchi paper hull .....	na	NC* .....	Maxi Nitro Card (*relevant gauge).....	#NC**
BPD10.....	BPD10 wad, 10ga.....	#3221000	Foster Slug.....	Foster Slug, 12ga .....	#7000002	Non-Toxic Green Slug.....	Non-Toxic Green Slug, 12ga .....	#7000005
BPD10T.....	BPD10-Tuff steel shot wad, 10ga .....	#3221001	FS12 .....	Flex Seal cushioned gas seal, 12ga.....	#072FS12	NP* .....	Nickel Plated lead shot (*indicate shot size) .....	#NP**
BPGS .....	Ballistic Products Gas Seal .....	#3221200	g.....	grams (28.35 grams = 1 ounce).....	na	OB* .....	Obturator gas seal (*relevant gauge) .....	#020**
Buffer.....	Ballistic Products shot buffer .....	see notes	GM3 .....	Vectan / Nobel Sport GM3 powder .....	#NBGM31	OS* .....	Overshot Card (*relevant gauge) .....	#OS*
Bullseye .....	Alliant Bullseye powder .....	#018010*	grns.....	grains (437.5 grains = 1 ounce) .....	na	OSBP12.....	Overshot Card w/ BPI Logo, 12ga .....	#OSBP12
BW12 .....	Brush wad (Original), 12ga .....	#072BW12	Green Dot.....	Alliant Green Dot powder .....	#018030*	PB .....	IMR PB powder .....	na
BW20 .....	Brush wad, 20ga.....	#072BW20	GS2 .....	GS2 / Air Wedge Gas Seal, 12ga .....	na	PISK.....	Piston Skeet wad, 12ga.....	#072PISK
BW24 .....	Brush wad, 24ga .....	#072BW24	GTT1.....	NobelSport-Cheddite GTT1 wad .....	#139GTT1	PISK-LITE.....	Piston Skeet Lite wad, 12ga.....	#072PISKL
BW28 .....	Brush wad, 28ga .....	#072BW28	GTT3.....	NobelSport-Cheddite GTT3 wad .....	#139GTT3	PLC* .....	1/2" pre-lubed fiber card (*relevant gauge) .....	#PLC**
BX410.....	BX410 wad, .410.....	#072BX410	H-110 .....	Hodgdon H-110 powder .....	#081110*	PRIMA-SV.....	Vectan / Nobel Sport Prima-SV powder.....	na
CCI209.....	CCI 209 primer .....	#CCI	HCD18 .....	Helix Cushion Driver 18 wad, 12ga.....	#020HCD18	PRIMA-V .....	Vectan / Nobel Sport Prima-V powder.....	#NBPRIMAV1
CCI209M.....	CCI 209 magnum primer .....	#CCIM	HCD21 .....	Helix Cushion Driver 21 wad, 12ga.....	#020HCD21	Pro Reach.....	Alliant Pro Reach powder .....	#018PRO*
Ched209.....	Cheddite 209 primer.....	#CH209	HCD24 .....	Helix Cushion Driver 24 wad, 12ga.....	#020HCD24	PT1044.....	PT1044 wad, 10ga .....	na
Cheddite .....	Cheddite/MultiHull hull .....	#139****	HCW* .....	1/2" waxed hard card wad (*relevant gauge) .....	#HCW**	PT1205.....	PT1205 wad, 12ga.....	na
Cheddite (paper).....	Cheddite/MultiHull paper hull.....	#13912PAP	Herco .....	Alliant Herco powder .....	#018050*	PT1210.....	PT1210 wad, 12ga.....	na
Clays .....	Hodgdon Clays powder .....	#081010*	Hevi-Shot™.....	Hevi-Shot™ non-toxic shot .....	#05500**	PT1215.....	PT1215 wad, 12ga.....	na
CLBC.....	Cushioned LBC wad, 12ga .....	#0729012	HS-6.....	Hodgdon HS-6 powder .....	#0810601	PT1220.....	PT1220 wad, 12ga.....	na
COS12.....	Clear Overshot Disc, 12ga.....	#COS12	HV28.....	HV28 large-capacity wad, 28ga.....	#072HV28	PT1232.....	PT1232 wad, 12ga.....	na
			IMR 4227.....	IMR 4227 powder.....	na			

# Component Abbreviation Chart

PT1251.....	PT1251 wad, 12ga.....	na	SR-7625.....	IMR SR-7625 powder.....	na
PT1253.....	PT1253 wad, 12ga.....	na	SRC.....	Short Range Crusher wad, 12ga.....	#072SRC
PT1260.....	PT1260 wad, 12ga.....	na	SSW.....	Short Shell wad, 12ga.....	#072SSW
PT2090.....	PT2090 wad, 20ga.....	na	Stabili-Shock.....	Stabili-Shock Rubber Slug.....	#PEG12*
PT2091.....	PT2091 wad, 20ga.....	na	Steel™.....	Alliant Steel powder.....	#018070*
PT2092.....	PT2092 wad, 20ga.....	na	Stretch.....	Stretch wad, .410.....	#0724104
PT2093.....	PT2093 wad, 20ga.....	na	Stump.....	Stump wad, .410.....	#0724105
PT2094.....	PT2094 wad, 20ga.....	na	TC20.....	The Commander, 20ga.....	#020TC20
PT20G5.....	PT20G5 gas seal, 20ga.....	na	Teflon.....	Teflon™ Wrap.....	#TEFLON
PT2895.....	PT2895 wad, 28ga.....	na	Titegroup.....	Hodgdon Titegroup powder.....	#081TG*
Pumpkin Ball Slug.....	Pumpkin Ball Slug, 10/12ga.....	#7000004	Titewad.....	Hodgdon Titewad powder.....	#081040*
Ranger Elite.....	Ranger Elite wad, 12ga.....	#32212RE	TPS1035.....	TPS 3 ½" wad, 10ga.....	#3227704
Ranger Plus.....	Ranger Plus wad, 12ga.....	na	TPS1230.....	TPS 3" wad, 12ga.....	#3227702
Red Dot.....	Alliant Red Dot powder.....	#018020*	TPS1235.....	TPS 3 ½" wad, 12ga.....	#3227703
Rem209.....	Remington 209 STS primer.....	#R209	TPS1275.....	TPS 2 ¾" wad, 12ga.....	#3227701
Rem. Nitro Mag.....	Remington Nitro Mag hull.....	na	TPS28.....	TPS shot wad, 28ga.....	#3222800
Rem. Nitro/STL.....	Remington Nitro/STL.....	na	TPS35mm.....	TPS 35mm wad, 12ga.....	#3227735
Rem. Premier.....	Remington Premier hull.....	na	TPS41mm.....	TPS 41mm wad, 12ga.....	#3227741
Remington.....	Remington hull.....	na	TPS410.....	TPS shot wad, .410.....	#3224100
Remington SP.....	Remington SP hull.....	na	TR12.....	Turkey Ranger wad, 12ga.....	na
Remington STS.....	Remington STS hull.....	na	Trim.....	trim component by specified amt.....	na
REX-24.....	Rex 24-Gram wad, 12ga.....	#072REX	TY34.....	Tyvek™ ¾" 10ga patch.....	#TY34
Rio209.....	Rio 209 primer.....	#RIO209	TY58.....	Tyvek™ 5/8" 12ga patch.....	#TY58
Rio.....	Rio hull.....	#RIO*****	Unique.....	Alliant Unique powder.....	#018060*
Rio (Eley).....	Rio/Eley 2 ½" hull.....	#RIO1265	Universal Clays.....	Hodgdon Universal Clays powder.....	#081030*
SF12.....	Spitfire wad, 12ga.....	#072SF12	Win209.....	Winchester 209 primer.....	#W209
SG16.....	Sporting 16 wad, 16ga.....	#072SG16	Win AA (original).....	Win AA old style, comp-formed hull.....	na
SG16S.....	Sporting 16 Short wad.....	#072SG16S	Win AA HS.....	Win AA "High Strength" hull.....	na
SG20L.....	Sporting 20 Long wad, 20ga.....	#072SG20L	Win. AA Lite.....	Winchester AA Lite powder.....	#235AA0*
SG20M.....	Sporting 20 Mid wad, 20ga.....	#072SG20M	Win. Universal.....	Winchester Universal (polyformed) hull.....	na
SG20S.....	Sporting 20 Short wad, 20ga.....	#072SG20S	Winchester 296.....	Winchester 296 powder.....	na
SG24.....	Sporting 24 wad, 24ga.....	#072SG24	Winchester Poly.....	Winchester Polyformed hull.....	na
SG28.....	Original Sporting 28 wad, 28ga.....	#072SG28	WSF.....	Winchester Super Field powder.....	#235030*
SG28-II.....	Sporting 28 II wad, 28ga.....	#072SG28S	WST.....	Winchester Super Target powder.....	#235020*
SG32.....	Sporting 32 wad, 32ga.....	#072SG32	X10X.....	X10X gas seal.....	#072X10X
SG410.....	Sporting .410 wad, .410.....	#072SG410	X12X.....	X12X gas seal.....	#322X12X
Shuttlecock Slug.....	Shuttlecock Slug, 12ga.....	#7000003	X Stream Spreader.....	X-Stream Spreader insert.....	#3220001
Solo 1000.....	Accurate/Scot Solo-1000 powder.....	#019100*	Z16.....	Field Commander, 16ga.....	#020Z16
SPARK.....	Super Spark wad, 12ga.....	#072SPK	Z15.....	Trap Commander 15mm, 12ga.....	#020Z15
SR-4756.....	IMR SR-4756 powder.....	na	Z21.....	Trap Commander, 12ga.....	#020Z21

## Ballistic Laboratory Notes:

- The "Load" column will often indicate a specific shot size. This is a laboratory notation that tells you what shot size was actually used in the loads for the ballistic lab tests. You are not confined by this information to use that specific shot size. This information is provided only as a guideline for shot-fit and (potential) filler wad purposes; it tells the loader what to expect.
- All unslit wads were slit prior to loading.** Number of slits may be varied to achieve desired effect. Slit 2 to 3 times for a tighter pattern and 5 or 6 for a more open pattern. Length of slits may also be altered. However, slits at least ¾ the length of the wad are recommended for complete pellet release.
- Mica Wad Slick™ may be used in all loads prior to loading. Mica is a dry lubricant that eases insertion of wads into hulls, especially once-fired. Also provides a slight boost in velocity.
- Original Shot Buffer was used in lead loads. Mix #47 Buffer was used in steel shot and Hevi-Shot loads and BSB/ITX Buffer was used in ITX™ loads. Do not add buffer unless indicated by data.
- All powder charges listed in data are in grains and not grams. Buffer is listed in grains as well.
- Mylar™ wrap is coiled prior to inserting into the hull or shotcup. Cut Mylar™ wrap in half in instances where "½" is designated before the Mylar™ that is being used. Teflon™ wrap is also coiled and inserted into the hull prior to dropping the shot.
- + / - next to shot size indicates load was tested with the listed size and larger (+) or smaller (-). A dash (-) between shot sizes indicates load was tested with all sizes between the two listed.

**WARNING:** BALLISTIC PRODUCTS, INC. DISCLAIMS ALL POSSIBLE LIABILITY FOR DAMAGES, INCLUDING ACTUAL, INCIDENTAL, AND CONSEQUENTIAL, RESULTING FROM USAGE OF INFORMATION OR ADVICE CONTAINED IN THIS AND OTHER PUBLICATIONS, LABELS, CATALOGS, TESTING REPORTS AND BOOKLETS. USE DATA AND ADVICE AT YOUR OWN RISK AND WITH CAUTION. WHERE DATA LIST SPECIFIC COMPONENTS, NO CHANGES OR SUBSTITUTIONS FOR THESE COMPONENTS CAN BE MADE WITHOUT RISKING SIGNIFICANT CHANGES IN THE LEVEL OF BALLISTIC PERFORMANCE AND/OR SAFETY OF THE LOADS SHOWN. FOLLOW LOADING DATA EXACTLY AND DO NOT SUBSTITUTE COMPONENTS. WE MAKE NO WARRANTIES EXPRESS OR IMPLIED, LIMITED OR FULL, AND WE DISCLAIM ANY SUCH WARRANTIES. FAILURE TO COMPLY WITH THESE AND OTHER STANDARDS OF RELOADING MAY RESULT IN ACCIDENTS WITH SERIOUS INJURY AND/OR DEATH TO THE SHOOTER AND/OR BYSTANDERS. KEEP OUT OF REACH OF CHILDREN. WE DISCLAIM ANY AND ALL LIABILITY FOR DAMAGE OR INJURY THAT MAY RESULT FROM YOUR HANDLOADED SHOTSHELLS AS WE HAVE NO CONTROL OVER ANY OF THE NUMEROUS POSSIBLE VARIATIONS IN COMPONENT PRODUCTION LOTS, IN TOOL AND DIE DIMENSIONS, IN YOUR LOADING PRACTICES AND PROCEDURES. THE INDIVIDUAL RELOADER IS SOLELY RESPONSIBLE FOR ANY VARIATION THAT MAY BE INCURRED BY ASSEMBLED AMMUNITION. TO AVOID SERIOUS INJURY OR DEATH TO SHOOTER AND BYSTANDERS, THIS PRODUCT SHOULD ONLY BE USED IN GUNSMITH-INSPECTED GUNS DESIGNED FOR MODERN SHOTSHELLS. IF GUN FAILS TO FIRE, KEEP POINTED IN SAFE DIRECTION FOR 30 SECONDS, THEN UNLOAD CAREFULLY. WEAR EYE AND EAR PROTECTION AND OBSERVE PROPER GUN SAFETY AT ALL TIMES. ALL PRODUCTS SOLD "AS IS".