



VECTAN[®]

POWDERS

BY NOBEL SPORT

RELOADING DATA





VECTAN RANGE OF SHOOTING POWDERS

VECTAN powders cover all the applications of pistol and rifle reloading and are proposed in four different ranges :

METALLIC POWDERS

VECTAN Ba10, Ba9 1/2, Ba9, Ba7 1/2, Ba6 1/2

Powders single base in stick. This range is now completed with Ba9 1/2, Ba7 1/2 and Ba6 1/2.

This range is particularly adapted for handgun reloading. All the powders of this range are absolutely clean burning and now have the same dimensions.

Ba9 1/2 : this new powder between our traditional Ba10 and Ba9 covers a wide range of calibers and is perfectly adapted to the 9 x 19mm, .38 Super Auto, .38 Special, .357 Mag., .40S&W, .44S&W Special, .44 Remington Magnum, .45ACP, .45 Colt

Ba7 1/2 : created to extend reloading possibilities. It gives excellent results for 9mm Luger, 10mm Auto, and .45ACP

Ba6 1/2 : it is the slowest powder of this range. It was specially designed for Magnum handguns ; it is also perfectly adapted to reload small rifle calibers such as .22 HORNET and .30 calibers.

VECTAN Tubal 3000, 5000, 7000, 8000

Tubular, single base powders, listed here above by decreasing burning rate order from the fastest to the slowest. Vectan Tubal powders are designed for rifles.

TARGET POWDERS

VECTAN A24, AS, A1, A0

Single base flake powders with color identification, intended for handgun use and some rifle applications.

VECTAN 206 SV, 206 V, D20

Single base disc green powders, intended for shotshell applications.

VECTAN Prima SV, Prima V, GM3

Single base granulated powders, intended for shotshell applications.

POWDER INDICATIVE BURNING RATE CHART

VECTAN	ACCURATE	ALLIANT	HODGDON	IMR	NORMA	RAMSHOT	WINCHESTER	VIHTAVUORI
Ba 10		Bullseye	Titewad				WFL	N 310
A24/ 206SV PRIMA SV			Clays				WST	
Ba 9 1/2	Solo 1000	Red Dot		700 X			WSH	N 320
PRIMA V / AS	No. 2	Am. Select	Tite Group	Trailboss		Zip		
206 V		Green Dot	International	PB			WC 231	N 32 C
D20 / GM3	No. 5		HP 38	SR 7625			AutoComp	
A1								N 330
Ba 9		Unique	Universal Cl				WSF	
		Power Pistol	HS 6					N 340
A0		Herco		800 X		True Blue		3 N 37
Ba 7 1/2	No. 7			SR 4756				N 350
		Blue Dot	Long Shot					3 N 38
	No. 9	Steel		SR 4759				N 105
Ba 6 1/2			H 110			Enforcer	WC 296	N 110
	XMP 5744	2400						
				IMR 4227				
	AA 1680		Lil gun					
		Reloder 7	H 4198	IMR 4198	N 200			N 120
	XMR 2015		H 322					
	AA 2230		Benchmark	IMR 3031				
	AA 2460		H 335		N 201	X-Terminator		N 130
TU 3000			H 4895	8208 XBR		TAC		N 530
			Varget		N 202		WC 748	N 133
	AA 2520		BL-C(2)	IMR 4895		Wild Boar		
			CFE 223	IMR 4064				N 135
		Reloder 15	Leverrevolution	IMR 4320	N 203 B			N 140
			H 380					N 540
TU 5000					URP	Big Game		N 150
		Reloder 17	H 414				WC 760	N 550
TU 7000	AA 4350		H 4350	4350	N 204			
		Reloder 19	Hybrid 100V					N160
	AA 3100		H 4831 SC	4831				N560
TU 8000			H 4831					
		Reloder 22	Superformance		MRP		Supreme 780	N 165
				7828	MRP 2			
		Reloder 25		7828 SSC	N 217			
			H 1000			Magnum		
			Retumbo					N170
								N 570
			H 50 BMG					24 N 41
			US 869					20 N 29
VECTAN	ACCURATE	ALLIANT	HODGDON	IMR	NORMA	RAMSHOT	WINCHESTER	VIHTAVUORI

FOR REFERENCE ONLY - PLEASE DO NOT USE IT FOR LOADS CALCULATION

LOADING DATA AND RELOADING SAFETY FOR VECTAN SMOKELESS POWDERS

Before you start reloading, read the safety rules carefully and keep all of them in mind. You must always be on the safe side when loading and be ensured of the good quality of your work.

Wear proper eye protection • Pour out only the powder quantity needed for immediate reloading work • Keep the plastic bottle tightly closed • Keep your reloading bench in good order • Clean up spilled powder with a broom and dustpan • Do not use a vacuum cleaner • In order to avoid double powder charge, please visually check the powder level in the cases • Do not keep old or salvaged powders • Never start with the maximum powder load indicated • Start reloading with the minimum powder charge indicated and then slowly increase the powder charge up to the ideal one • One cartridge for each step is enough • Never exceed the maximum cartridge length shown in the table • When preparing test loads, make sure you work from cases you have numbered legibly with a permanent marker • Once at a shooting range, fire the cartridges in the same order as loaded, starting from the lightest powder charge, using a solid rest • You will probably identify several points where velocity is approximately identical and impacts group closer to one another • By all means use a reliable electronic chronograph and record all velocities • Velocities and pressures are closely related • Always use the same point of aims from the same shooting rest • Mark on a separate target the exact point of impact and number them • Depending of the intended use of your handloads, select the proper load – velocity- accuracy • Record the safest and best loading information in your records for future reference • Dispose of all loading and shooting waste in accordance with Local, State and Federal laws and regulations

If you change one single component (primer, case brand or types, bullet brand, type or weight), you must start all over again and work up exactly as you would do when loading a new caliber for a new gun.

Closely inspect all cases immediately after firing, measure cases if you feel pressure could be high. Always keep a watchful eye on pressure signs (difficult extraction, flattened or blown primers and unusual recoil). In the rifle cartridges, you will be able to start looking for an accurate load by adjusting bullet seating depth etc. only once you have identified the proper charge of the proper powder.

IMPORTANT : The loading data supplied herein are offered only as information and cannot be considered as a recommendation. This data has been considered safe in the firearm(s) in which they were developed. This does not mean they will be safe in your own firearm, whatever its age, brand or origin. For the same reason, any variation in firearm(s) or components might bring very different and possibly unsafe results. As Nobel Sport has no control over the data user's gun, components, dies and methods Nobel Sport and distributors of its products does not warrant any use the ultimate user may make of Nobel Sport powder or this loading data and cannot accept any responsibility whatsoever in whatever incidents or accidents (material, psychological or physical, direct or indirect) to which the user of these data or any other person might be exposed. The simple fact of using, either directly or indirectly, the data supplied implies complete, full and informed acceptance of the above conditions and ipso facto discharges both Nobel Sport as well as distributors of any and all responsibility.

Reproduction of these data in print or by any other means including computer or internet files is subject to prior approval in writing.

The loading data tables have been prepared in the Nobel Sport laboratories according to CIP Rules. Loads shown have been reached with the components used in their development and were fired in proof barrels under carefully controlled conditions. The end user might reach very different results due to handloading methods, procedures, components and tools, the actual firearm used and climatic variations.

NOTICE : Nobel Sport can exercise no control whatsoever on the above, Nobel Sport disclaims any responsibility for any incident or accident resulting from the use/misuse of their smokeless powders and recommended loading data. Nobel Sport disclaims all warranties, whether express or implied (including warranties of merchantability and fitness for particular purpose). Buyers and users assume all risk, responsibility and liability or whatever for any all injuries, death, losses damages to persons or property that may result from the use/misuse of this product.

COMPONENTS : Nobel Sport only produces single base smokeless powders used in these tables. Components listed in these tables were acquired on the open market and are produced outside of Nobel Sport' control. Any change in components will result in changes in the ballistic performance of handloaded ammunition. All information supplied in only indicative and possibly will not reflect actual performance in the field.

CHARGE WEIGHTS : They are listed in grains, the loads listed gave good results both pressure-wise and velocity-wise under laboratory conditions with the components listed. Actual field results using other components may and will generally be different.

HANDLOADING PROCEDURES : It is essential that the reloader starts with the minimum load and gradually increases until reaching the ideal load. Beginners are urged to stay with minimum loads until they have gathered enough experience, both in shooting techniques and handloading techniques.

SHOTSHELL RELOADING DATA : Loading data in this loading table has been developed for lead shot only. Do not use this data with steel or other non-toxic shot pellets

MAXIMUM CIP PRESSURES : C.I.P. is an international, independent normative body. CIP has established maximum mean allowable pressures for nearly every cartridge currently chambered in commercial firearms. We advise powder purchasers to endeavor to have their handloads tested by one of the CIP laboratories.

LEAD WARNING : Discharging firearms in poorly ventilated areas, cleaning firearms, or handling ammunition may result in exposure to lead and other substances known to cause birth defects, reproductive harm, and other serious physical injury. Have adequate ventilation at all time. Wash hands thoroughly after exposure.

SAFETY AND HEALTH PRECAUTIONS

- Store in a cool, dry place, keep in ventilated area at all times
- Never substitute these smokeless powders for black powder or muzzleloading powder
- Minimize inhalation, avoid contact with skin or clothing
- Do not take internally ; Do not ingest powder
- Keep powder out of reach of children
- Keep away from electrical devices that could produce sparks during storage and handling
- Keep away from combustible or flammable liquids
- The powder must be stored in its original packing
- Do not mix different type and /or burning rate of powders
- Do not smoke where powder is stored and where you are loading it
- Follow all regulations in accordance with Local, State and Federal laws regarding purchase and storage in your country
- Be certain that the powder container is empty prior to discarding

You should consult the pamphlet "Smokeless Powder (Properties & Storage)" from the Sporting Arms and Ammunition Manufacturer's Institute, Inc. 11 Mile Hill Road, Newtown, Connecticut 06470-2539, (203) 426-4358, www.saami.org

PISTOL and REVOLVER

Bullet		Primer	Powder	Starting load		Maximum load	
Weight	Type			Weight/Poids	Velocity	Weight	Velocity
[grs]				[grs]	[fps]	[grs]	[fps]

6,35 BROWNING (25 AUTO) (25 ACP)

LENGTH (mm) 15.5

50	FMJ-RN	Small Pistol	A1	0.9	440	1.2	508
			Ba10	0.5	494	0.6	541
51	HR-NP	Small Pistol	AS	0.6	469	0.8	541
			A1	0.9	525	1.2	606

7,62 x 25 TOKAREV

LENGTH (mm) 24.80

60	HP	Large Pistol	Ba9 1/2	4.5	1 424	5.5	1 574
			Ba9	5.7	1 535	7.1	1 713
71	FMJ	Large Pistol	Ba9	5.2	1 382	6.7	1 569
74	FMJ	Large Pistol	Ba9	5.2	1 372	6.6	1 546
90	JHC	Large Pistol	Ba9	4.6	1 194	5.7	1 329
93	FMJ	Large Pistol	Ba9	4.8	1 187	5.9	1 316

7,65 BROWNING (32 AUTO) (32 ACP)

LENGTH (mm) 17.20

67	HR-P	Small Pistol	Ba10	0.9	668	1.2	771
			AS	1.5	838	1.8	918
77	FMJ	Small Pistol	Ba10	1.2	718	1.5	803
			A1	2.0	868	2.4	951
			AS	1.2	690	1.5	771

.32 SMITH & WESSON Long NP

LENGTH (mm) 23.27

93	LYMAN mould 313-492	Small Pistol	Ba10	0.9	582	1.2	672
			AS	1.9	655	2.3	721
95	LYMAN mould 313-226	Small Pistol	Ba9	2.8	587	3.5	656

.32 SMITH & WESSON Long Wadcutter

LENGTH (mm) 23.27

96	HR-WC	Small Pistol	Ba10	0.9	560	1.0	590
			Ba10	0.9	540	1.2	623
			Ba10	1.2	674	1.5	754
98	WC	Small Pistol	Ba10	0.9	560	1.0	590
			Ba10	1.1	663	1.3	721
			A1	0.9	511	1.2	590
			Ba10	0.9	624	1.2	721

9 mm PARABELLUM (9 Luger) (9 x 19)

LENGTH (mm) 19.15

88	JHP	Small Pistol	AS	3.4	1 165	4.1	1 279
			A1	4.3	1 288	5.4	1 443
			Ba9	4.0	1 144	5.0	1 279
90	HP-XTF	Small Pistol	Ba10	3.4	1 134	4.2	1 260
			Ba9 1/2	4.2	1 228	5.3	1 380
			Ba9	4.8	1 277	6.1	1 440
			Ba9 1/2	5.9	1 354	7.2	1 496
100	JRP	Small Pistol	Ba9	3.7	1 088	4.6	1 213
100	HP	Small Pistol	Ba9 1/2	4.0	1 157	5.1	1 307
			Ba9	4.6	1 205	5.1	1 365



BE ALERT - NEVER EXCEED MAXIMUM LOADS

BE SAFE - APPROACH ALL LOADS WITH EXTREME CAUTION



PISTOL and REVOLVER

Bullet		Primer	Powder	Starting load		Maximum load	
Weight	Type			Weight	Velocity	Weight	Velocity
[grs]				[grs]	[fps]	[grs]	[fps]

9 mm PARABELLUM (9 Luger) (9 x 19)

LENGTH (mm) 19.15

115	FMJ	Small Pistol	Ba9	4.5	1 049	5.6	1 170
			SP8	5.4	1 052	6.8	1 180
116	FN	Small Pistol	Ba9	4.6	1 022	5.8	1 148
			Ba9 1/2	3.5	1 048	4.5	1 188
115	HP-XTP	Small Pistol	Ba9	4.3	1 116	5.4	1 251
			Ba7 1/2	5.2	1 171	6.4	1 299
			Ba9 1/2	3.4	1 001	4.4	1 139
115	RN	Small Pistol	Ba9	4.0	1 049	5.1	1 185
			Ba7 1/2	5.1	1 144	6.4	1 282
			Ba9 1/2	3.4	975	4.3	1 096
124	FMJ-FP	Small Pistol	Ba9	4.2	1 059	5.2	1 178
			Ba7 1/2	4.8	1 086	6.0	1 214
124	TMJ	Small Pistol	Ba9	4.0	910	5.0	1 017
			Ba10	1.9	804	2.3	885
125	LYMAN mould 356402	Small Pistol	AS	2.5	898	3.0	984
			A1	2.8	923	3.4	1 017
			Ba9	3.4	962	4.3	1 082
125	RN-PB	Small Pistol	Ba9	3.9	928	4.8	1 030
125	LYNX HR mould n°P900	Small Pistol	AS	3.1	947	3.8	1 049
130	FMJ	Small Pistol	Ba9 1/2	3.2	936	4.0	1 046
			Ba9	3.5	965	4.5	1 094
			Ba7 1/2	4.5	1 027	5.5	1 135
145	LRN	Small Pistol	Ba9	3.1	903	3.8	1 000
			Ba7 1/2	3.7	929	4.7	1 047

9 x 21

LENGTH (mm) 21.00

100	HP	Small Pistol	Ba9	5.2	1 291	6.6	1 455
			Ba7 1/2	6.2	1 359	7.6	1 505
115	FMJ	Small Pistol	Ba9	4.6	1 160	5.9	1 314
			Ba7 1/2	5.2	1 195	6.6	1 346
123	FMJ	Small Pistol	Ba9	4.2	1 073	5.2	1 194
			Ba7 1/2	4.6	1 071	5.9	1 213
147	HP-XTP	Small Pistol	Ba7 1/2	4.0	993	5.0	1 110

.357 SIG

LENGTH (mm) 21.97

95	FMJ	Small Pistol	Ba9	7.3	1 496	8.9	1 652
			Ba7 1/2	8.2	1 531	10.1	1 699
115	FMJ	Small Pistol	Ba9	6.2	1 322	7.7	1 473
			Ba7 1/2	6.9	1 352	8.6	1 509
123	FMJ-RN	Small Pistol	Ba9	5.9	1 248	7.4	1 398
			Ba7 1/2	6.6	1 284	8.3	1 440
130	RN B	Small Pistol	Ba9	5.7	1 203	7.1	1 343
			Ba7 1/2	6.5	1 258	8.1	1 404



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PISTOL and REVOLVER

Bullet		Primer	Powder	Starting load		Maximum load	
Weight	Type			Weight	Velocity	Weight	Velocity
[grs]				[grs]	[fps]	[grs]	[fps]

.38 SPÉCIAL WADCUTTER

LENGTH (mm) 29.34

145	LYMAN mould 35-84-95	Small Pistol	Ba10	1.9	655	2.3	721
145	HN Plastified BC dia.357	Small Pistol	Ba10	1.9	655	2.3	721
147	HN Plastified BP dia.355	Small Pistol	Ba10	1.9	626	2.3	689
148	SPEER Bevel Base n°4605	Small Pistol	Ba10	2.0	660	2.5	738
148	WC-BC	Small Pistol	Ba10	1.9	655	2.3	721
			AS	2.0	645	2.5	721
156	LYNX mould HR - P916	Small Pistol	Ba10	1.9	641	2.3	705

.38 SPECIAL

LENGTH (mm) 29.34

110	HP-XTP	Small Pistol	Ba9 1/2	4.9	1 140	6.1	1 272
			Ba9	5.6	1 141	6.9	1 267
			Ba7 1/2	6.2	1 171	7.7	1 305
125	JSP-FN	Small Pistol	Ba9	5.2	953	6.5	1 066
125	FPXTP	Small Pistol	Ba9 1/2	4.6	1 016	5.6	1 121
			Ba9	5.2	1 038	6.7	1 178
			Ba6 1/2	6.0	1 095	7.5	1 224
140	HP	Small Pistol	Ba9 1/2	4.3	947	5.3	1 051
			Ba7 1/2	5.6	993	6.9	1 102
144	SWC	Small Pistol	Ba10	2.9	799	3.7	902
144	WC-BC	Small Pistol	AS	2.9	740	3.7	836
			A1	4.0	792	5.0	885
			Ba9	5.4	935	6.8	1 049
146	JHP	Small Pistol	Ba9	4.3	896	5.4	1 004
			Ba7 1/2	4.8	911	5.9	1 010
158	NORMA Lead RB-Full base	Small Pistol	Ba10	3.1	799	3.8	885
			Ba9	4.6	876	5.8	984
			A1	4.0	821	5.0	918
158	JHP	Small Pistol	A0	4.9	895	6.2	1 007
			Ba9	4.2	795	5.2	885
158	HP	Small Pistol	A1	4.3	790	5.4	885
			AS	4.0	771	4.9	853
158	RN	Small Pistol	Ba9	4.9	859	6.0	951
			A1	4.6	847	5.8	951
158	LRN	Small Pistol	Ba10	3.1	795	3.9	892
			A0	4.9	852	6.2	958
158	HR	Small Pistol	AS	2.8	744	3.4	820
			Ba9	4.6	914	5.7	1 017
158	HP	Small Pistol	Ba9 1/2	3.7	800	4.6	892
			Ba9	4.6	891	5.6	983
			Ba7 1/2	5.1	911	6.3	1 013
158	FP	Small Pistol	Ba9 1/2	3.9	836	4.8	927
			Ba9	4.6	869	5.7	967
			Ba7 1/2	5.1	903	6.3	1 004



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PISTOL and REVOLVER

Bullet		Primer	Powder	Starting load		Maximum load	
Weight	Type			Weight	Velocity	Weight	Velocity
[grs]				[grs]	[fps]	[grs]	[fps]

.38 SUPER AUTO

LENGTH (mm) 22.70

115	HP-XTP	Small Pistol	Ba9 1/2	4.5	1 133	5.5	1 253
			Ba9	5.2	1 184	6.5	1 324
			Ba7 1/2	5.1	1 139	6.3	1 266
115	FMJ	Small Pistol	Ba7 1/2	6.8	1 287	8.5	1 439
115	RN	Small Pistol	Ba9 1/2	4.2	1 107	5.2	1 232
			Ba9	5.2	1 185	6.5	1 325
115	RN	Small Pistol	Ba7 1/2	5.9	1 218	7.3	1 355
124	FMJ-FP	Small Pistol	Ba9 1/2	4.0	1 021	5.0	1 142
124	FMJ-FP	Small Pistol	Ba9	5.2	1 208	6.4	1 340
			Ba7 1/2	5.6	1 149	6.9	1 275
			Ba9 1/2	3.7	987	4.6	1 101
130	FMJ	Small Pistol	Ba9	4.6	1 068	5.6	1 178
			Ba9 1/2	3.9	979	4.8	1 086
			Ba9	4.6	1 050	5.8	1 179
130	RN	Small Pistol	Ba7 1/2	5.2	1 087	6.4	1 206
			Ba9	4.3	988	5.3	1 097
			Ba7 1/2	4.6	961	5.7	1 070

.357 MAGNUM

LENGTH (mm) 40.77

110	HP-XTP	Small Pistol	Ba10	5.6	1 254	7.0	1 402
			Ba9 1/2	6.6	1 352	8.3	1 516
			Ba9	7.9	1 472	9.8	1 639
			Ba7 1/2	9.0	1 521	11.2	1 697
			Ba6 1/2	16.7	1 797	20.8	2 006
110	JHP	Small Pistol	Ba9	8.3	1 472	10.5	1 656
125	JHP	Small Pistol	Ba9	8.0	1 350	10.0	1 509
			A1	6.9	1 263	8.6	1 410
125	FP-XTP	Small Pistol	Ba10	5.2	1 157	6.4	1 284
			Ba9 1/2	6.0	1 233	7.5	1 379
			Ba9	7.4	1 353	9.3	1 517
			Ba7 1/2	8.2	1 400	10.2	1 561
			Ba6 1/2	14.7	1 584	18.4	1 772
140	JHP	Small Pistol	Ba9	7.4	1 236	9.2	1 378
140	HP	Small Pistol	Ba9	6.2	1 169	8.7	1 385
			Ba7 1/2	7.7	1 290	9.5	1 433
			Ba6 1/2	13.7	1 474	17.1	1 647
			Ba9 1/2	5.2	1 030	6.6	1 160
158	HP	Small Pistol	Ba9	6.2	1 112	7.7	1 239
			Ba7 1/2	7.1	1 174	8.9	1 314
			Ba9	5.9	998	7.4	1 118
180	TMJ	Small Pistol	Ba7 1/2	6.3	1 027	7.9	1 150
			Ba6 1/2	11.3	1 252	14.0	1 394
			Ba7 1/2	6.0	910	7.7	1 031
200	TMJ	Small Pistol	Ba6 1/2	10.2	1 118	12.8	1 252



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PISTOL and REVOLVER

Bullet		Primer	Powder	Starting load		Maximum load	
Weight	Type			Weight	Velocity	Weight	Velocity
[grs]				[grs]	[fps]	[grs]	[fps]

.357 REMINGTON maximum

LENGTH (mm) 32.77

158	FP-XTP	Small Rifle	Ba7 1/2	8.8	1 385	10.9	1 541
			Ba6 1/2	15.7	1 703	19.5	1 898
160	LFN	Small Rifle	Ba7 1/2	8.6	1 392	10.7	1 553
200	TMJ	Small Rifle	Ba6 1/2	12.8	1 345	16.1	1 508

.40 SMITH & WESSON

LENGTH (mm) 21.59

135	HP-XTP	Small Pistol	Ba9 1/2	4.3	1 003	5.5	1 134
			Ba9	4.9	1 042	6.2	1 172
			Ba7 1/2	5.6	1 063	7.0	1 189
155	FP	Small Pistol	Ba9 1/2	4.3	985	5.5	1 114
			Ba9	4.9	1 031	6.2	1 160
			Ba7 1/2	5.9	1 083	7.4	1 213
170	HP	Small Pistol	Ba9	4.5	953	5.6	1 063
			Ba7 1/2	4.9	970	6.2	1 091
180	GR-JHP	Small Pistol	Ba9	4.0	840	4.9	930
			A0	4.2	840	5.2	935
200	TMJ	Small Pistol	Ba9	4.0	822	4.9	910
			Ba7 1/2	4.5	837	5.5	925

10 mm Auto

LENGTH (mm) 22.50

155	HP-XTP	Large Pistol	Ba9	5.7	1 098	7.1	1 225
			Ba7 1/2	6.3	1 121	7.8	1 247
180	HP	Large Pistol	Ba9	5.2	982	6.4	1 089
			Ba7 1/2	5.2	1 003	6.6	1 130
200	FMC	Large Pistol	A1	4.0	815	4.9	902
			Ba9	4.3	820	5.4	919
200	FMJ-FP	Large Pistol	Ba9	4.3	851	5.3	945
			Ba7 1/2	4.6	881	5.8	989
170	RCBS mould 40-170	Large Pistol	A1	4.2	944	5.2	1 050
			Ba9	4.6	913	5.9	1 034

.41 AE

LENGTH (mm) 22.00

200	IMI	Small Pistol	Ba9	4.3	878	5.4	984
195	SWC	Small Pistol	Ba9	3.7	883	4.6	984

.41 REMINGTON MAGNUM

LENGTH (mm) 32.50

170	JHC	Large Pistol	Ba7 1/2	10.0	1 324	12.5	1 480
			Ba6 1/2	18.5	1 559	23.2	1 746
210	HP-XTP	Large Pistol	Ba7 1/2	9.3	1 185	11.4	1 312
			Ba6 1/2	15.7	1 362	19.8	1 529

.44 REMINGTON MAGNUM

LENGTH (mm) 32.64

180	HP-XTP	Large Pistol	Ba9 1/2	9.6	1 292	11.8	1 432
			Ba9	11.4	1 393	14.1	1 549
			Ba7 1/2	12.2	1 409	15.3	1 578



BE ALERT - NEVER EXCEED MAXIMUM LOADS

BE SAFE - APPROACH ALL LOADS WITH EXTREME CAUTION



PISTOL and REVOLVER

Bullet		Primer	Powder	Starting load		Maximum load	
Weight	Type			Weight	Velocity	Weight	Velocity
[grs]				[grs]	[fps]	[grs]	[fps]

.44 REMINGTON MAGNUM

LENGTH (mm) 32.64

180	HP-XTP	Large Pistol	Ba6 1/2	21.8	1 570	27.1	1 751
200	HP	Large Pistol	Ba9	9.9	1 236	12.3	1 378
			Ba6	19.8	1 295	24.6	1 443
220	FPJ Match	Large Pistol	Ba9 1/2	8.3	1 101	10.4	1 232
			Ba9	9.9	1 191	12.3	1 328
			Ba7 1/2	11.9	1 292	14.8	1 441
225	JHP	Large Pistol	Ba9	8.3	1 089	10.3	1 213
240	JTC Sil	Large Pistol	Ba9 1/2	7.7	1 034	9.7	1 161
			Ba9	9.3	1 121	11.5	1 247
			Ba7 1/2	10.2	1 168	12.8	1 308
240	JTC Sil	Large Pistol	Ba6 1/2	17.6	1 375	22.1	1 541
255	LYMAN mould n°429421	Large Pistol	Ba9	9.0	1 097	11.0	1 213
300	HP-XTP	Large Pistol	Ba9	8.3	943	10.5	1 061
			Ba7 1/2	9.4	1 011	11.7	1 128
			Ba6 1/2	16.2	1 230	20.2	1 374

.44 SMITH & WESSON Spécial

LENGTH (mm) 29.30

180	HP-XTP	Large Pistol	Ba9 1/2	6.0	918	7.6	1 033
			Ba9	6.9	993	8.6	1 109
			Ba7 1/2	8.3	1 021	10.5	1 148
200	HP-XTP	Large Pistol	Ba9 1/2	5.6	869	6.9	965
			Ba9	6.8	924	8.5	1 033
			Ba7 1/2	7.9	964	9.9	1 079
240	JTC Sil	Large Pistol	Ba9 1/2	4.5	656	5.6	732
			Ba9	4.9	683	6.2	768
			Ba7 1/2	6.5	792	8.2	889
250	FPJ	Large Pistol	Ba9 1/2	4.5	664	5.6	741
			Ba9	4.8	669	6.0	748
267	LFN	Large Pistol	Ba7 1/2	6.5	834	8.0	925
250	FPJ	Large Pistol	Ba7 1/2	6.0	758	7.6	853
267	LFN	Large Pistol	Ba9 1/2	4.8	769	6.0	860
			Ba9	5.6	831	6.9	922

.45 COLT (45 Long COLT)

LENGTH (mm) 32.64

185	HP-XTP	Large Pistol	Ba9 1/2	7.7	1 058	9.6	1 181
			Ba9	9.4	1 104	11.8	1 237
			Ba7 1/2	10.6	1 123	13.2	1 253
200	FMJ CT	Large Pistol	Ba9 1/2	7.1	1 002	8.9	1 122
			Ba9 1/2	6.6	895	8.3	1 004
230	FMJ Match	Large Pistol	Ba9	8.3	967	10.4	1 083
			A1	6.8	792	8.5	885
			Ba9	8.0	938	10.0	1 049
250	HP-XTP	Large Pistol	Ba9 1/2	6.3	826	7.8	919
			Ba9	7.9	904	9.8	1 007
250	HP-XTP	Large Pistol	Ba7 1/2	9.0	944	11.2	1 053
256	RCBS mould n°45255	Large Pistol	Ba10	4.6	760	5.8	853
			AS	5.2	763	6.5	853
			Ba9	7.1	728	9.0	820



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PISTOL and REVOLVER

Bullet		Primer	Powder	Starting load		Maximum load	
Weight	Type			Weight	Velocity	Weight	Velocity
[grs]				[grs]	[fps]	[grs]	[fps]

.45 ACP (45 mod-1911)

LENGTH (mm) 22.81

185	HP	Large Pistol	Ba10	3.4	752	4.2	836
185	LYMAN mould 452-389	Large Pistol	Ba10	2.6	709	3.2	787
			AS	3.4	796	4.2	885
185	FN	Large Pistol	Ba9 1/2	5.1	933	6.3	1 037
			Ba9	6.3	976	7.9	1 093
			Ba7 1/2	7.6	1 052	9.4	1 170
185	HP	Large Pistol	Ba10	4.0	831	5.1	938
			Ba9 1/2	4.6	811	5.9	919
			Ba9	6.3	961	7.9	1 076
193	HR	Large Pistol	Ba10	3.4	782	4.2	869
			A1	5.2	880	6.5	984
			Ba9	5.9	790	7.4	885
200	JHP	Large Pistol	A1	4.8	851	6.0	951
			Ba9	5.2	786	6.6	885
200	SWC	Large Pistol	Ba9	5.1	826	6.3	918
200	FMJ-CT	Large Pistol	Ba9 1/2	4.3	828	5.4	928
			Ba9	5.4	879	6.8	986
			Ba7 1/2	5.9	895	7.3	996
200	SWC	Large Pistol	Ba10	3.1	741	3.8	820
			AS	3.4	729	4.3	820
			A1	4.3	761	5.4	853
225	HP	Large Pistol	A1	4.6	766	5.7	853
230	FMJ	Large Pistol	Ba10	3.1	645	3.9	720
230	FP-FMJ	Large Pistol	Ba10	3.2	674	4.0	754
			Ba9	4.9	771	6.0	853
230	FMJ-RN	Large Pistol	Ba10	3.4	694	4.2	771
			Ba9 1/2	4.3	773	5.2	850
			Ba9	4.5	753	5.6	840
			Ba7 1/2	5.9	833	7.2	920

.45 WINCHESTER MAGNUM

LENGTH (mm) 30.30

185	HP-XTP	Large Pistol	Ba7 1/2	12.2	1 498	15.3	1 678
200	TMJ-SWC	Large Pistol	Ba6 1/2	20.2	1 688	25.2	1 885
230	FMJ-RN	Large Pistol	Ba6 1/2	19.1	1 559	23.9	1 744
250	HP-XTP	Large Pistol	Ba7 1/2	9.6	1 095	12.0	1 224
			Ba6 1/2	17.0	1 415	21.1	1 576

.454 CASULL

LENGTH (mm) 35.50

185	HPXTP	Small Rifle	Ba7 1/2	17.1	1 740	21.4	1 946
225	HP	Small Rifle	Ba6 1/2	26.9	1 805	33.5	2 014
250	HP-XTP	Small Rifle	Ba6 1/2	24.5	1 668	30.7	1 867

.50 AE

LENGTH (mm) 32.64

300	JHP	Large Pistol	Ba6 1/2	23.0	1 339	28.7	1 496
325	UCHP	Large Pistol	Ba6 1/2	21.6	1 283	27.0	1 434

.500 SMITH & WESSON MAGNUM

LENGTH (mm) 50.30

300	TMJ	Large Rifle	Ba6 1/2	36.4	1 913	45.5	2 139
350	HPXTP	Large Rifle	Ba6 1/2	31.0	1 685	38.7	1 883
400	JSP	Large Rifle	Ba6 1/2	29.9	1 575	37.3	1 759



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RIFLE

Bullet		Primer	Powder	Starting load		Maximum load	
Weight	Type			Weight	Velocity	Weight	Velocity
[grs]				[grs]	[fps]	[grs]	[fps]

.17 REMINGTON

LENGTH (mm) 45.62

20	V-MAX	Small Rifle	Tu3000	20.1	3 911	23.9	4 265
25	HP	Small Rifle Magnum	Tu3000	18.5	3 613	21.6	3 904

5,6 x 35 R

LENGTH (mm) 35.50

55	LYMAN mould	Large Rifle	Ba9	3.1	1 441	3.4	1 509
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.22 HORNET (5,6 x 35 R)

LENGTH (mm) 35.64

49	LYMAN mould	Small Rifle	Ba9	3.1	1 463	3.3	1 509
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5,6 x 50 R MAGNUM

LENGTH (mm) 50.00

40	BT	Small Rifle	Tu3000	21.6	2 949	27.8	3 346
50	SSP	Small Rifle	Tu3000	23.1	3 030	29.3	3 412
70	SSP	Small Rifle	Tu5000	23.1	2 506	29.3	2 822

.222 REMINGTON (5,7 x 43)

LENGTH (mm) 43.18

40	SP	Small Rifle Match	Tu3000	17.7	2 908	23.9	3 379
			Tu5000	18.5	2 840	24.7	3 281
45	SP	Small Rifle Match	Tu3000	17.0	2 815	23.1	3 281
49	LYMAN mould	Small Rifle	A0	5.4	1 839	8.5	2 307
50	TNTHP	Small Rifle Match	Tu3000	17.0	2 702	23.1	3 150
52	A-MAX	Small Rifle Match	Tu3000	16.2	2 595	22.4	3 051
			Tu5000	18.5	2 701	23.1	3 018
60	HP	Small Rifle Match	Tu3000	15.4	2 355	21.6	2 789
			Tu5000	17.0	2 477	23.1	2 887

.22 PPC-USA

LENGTH (mm) 38.48

40	BT	Small Rifle Match	Tu5000	23.1	3 204	29.3	3 609
40	HP	Small Rifle Match	Tu5000	23.1	3 146	29.3	3 543
45	HORNET	Small Rifle Match	Tu3000	21.6	3 152	27.8	3 576
50	BT	Small Rifle Match	Tu5000	23.1	3 044	29.3	3 428
52	HPBTMK	Small Rifle Match	Tu3000	19.3	2 826	25.5	3 248
			Tu5000	20.8	2 851	27.0	3 248
			Tu3000	21.6	2 935	26.2	3 232
55	SPT	Small Rifle Match	Tu3000	19.3	2 705	27.0	3 199

.223 REMINGTON (5,56 US OU 5,56 x 45)

LENGTH (mm) 44.70

40	SSP	Small Rifle Match	Tu3000	23.1	3 125	27.0	3 379
			Tu5000	23.9	3 057	27.8	3 297
45	SPT	Small Rifle Match	Tu3000	21.6	3 095	25.5	3 363
			Tu5000	23.9	3 164	27.8	3 412
52	HPBTMK	Small Rifle Match	Tu3000	22.4	2 958	26.2	3 199
55	FMJBT	Small Rifle Match	Tu3000	22.4	2 973	26.2	3 215
60	PART	Small Rifle Match	Tu3000	19.3	2 740	25.5	3 150
			Tu5000	20.1	2 759	26.2	3 150
68	HPBT	Small Rifle Match	Tu5000	20.1	2 530	24.7	2 805



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RIFLE

Bullet		Primer	Powder	Starting load		Maximum load	
Weight	Type			Weight	Velocity	Weight	Velocity
[grs]				[grs]	[fps]	[grs]	[fps]

.222 REMINGTON MAGNUM (5,7 x 47)

LENGTH (mm) 46.99

40	SSP	Small Rifle Match	Tu3000	23.1	3 353	27.0	3 625
50	TNTHP	Small Rifle Match	Tu3000	20.8	2 980	27.0	3 395
52	HPBTMK	Small Rifle Match	Tu3000	20.1	2 903	26.2	3 314
			Tu5000	20.8	2 865	27.0	3 264
55	FMJBT	Small Rifle Match	Tu3000	21.6	2 979	26.2	3 281
			Tu5000	22.4	2 988	27.0	3 281
60	V-MAX	Small Rifle Match	Tu3000	18.5	2 730	23.1	3 051

.22-250 REMINGTON (5,6 x 49 R)

LENGTH (mm) 48.46

40	BK	Large Rifle	Tu3000	27.8	3 500	34.0	3 871
			Tu5000	30.1	3 585	36.3	3 937
45	BT	Large Rifle Match	Tu3000	29.3	3 591	35.5	3 953
			Tu5000	32.4	3 607	38.6	3 937
50	SP	Large Rifle	Tu3000	27.0	3 210	33.2	3 560
			Tu5000	28.5	3 360	34.7	3 707
70	SP	Large Rifle	Tu5000	24.7	2 713	30.9	3 035

.223 WSSM

LENGTH (mm) 42.42

52	HPBTMK	Large Rifle	Tu5000	34.7	3 641	40.9	3 953
60	PART	Large Rifle	Tu7000	37.8	3 452	44.0	3 724
69	HPBTMK	Large Rifle	Tu7000	36.3	3 248	42.4	3 510
			Tu8000	40.1	3 252	46.3	3 494

5,6 x 57 RWS et 5,6 x 57 RWS

LENGTH (mm) 56.70

45	SP	Large Rifle	Tu5000	37.0	3 492	43.2	3 773
50	SP	Large Rifle	Tu5000	34.0	3 474	40.1	3 773
			Tu7000	35.5	3 087	41.7	3 346
55	SP	Large Rifle	Tu5000	33.2	3 222	39.4	3 510
			Tu7000	35.5	3 330	41.7	3 609
70	SSP	Large Rifle	Tu7000	34.7	3 006	40.9	3 264

6 mm PPC et 6 mm PPC-USA

LENGTH (mm) 38.18

70	TNTHP	Small Rifle Match	Tu3000	23.1	2 782	29.3	3 133
75	HP	Small Rifle Match	Tu3000	21.6	2 718	27.8	3 084

6 mm REMINGTON BR et 6 mm BR NORMA

LENGTH (mm) 39.62

60	HP	Small Rifle Magnum	Tu3000	25.5	3 035	31.6	3 379
70	HPBTMK	Small Rifle Magnum	Tu3000	23.9	2 894	30.1	3 248
			Tu5000	25.5	2 874	31.6	3 199
80	SSP	Small Rifle Magnum	Tu5000	25.5	2 770	31.6	3 084
100	SPBT	Small Rifle Magnum	Tu5000	21.6	2 328	27.8	2 641
107	HPBTMK	Small Rifle Magnum	Tu5000	23.1	2 418	29.3	2 723

.243 WINCHESTER (6,1 x 52)

LENGTH (mm) 51.94

75	HP	Large Rifle	Tu5000	34.7	3 128	40.9	3 396
			Tu7000	39.4	3 099	45.5	3 330
85	BT	Large Rifle	Tu5000	33.2	3 057	39.4	3 330



BE ALERT - NEVER EXCEED MAXIMUM LOADS

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RIFLE

Bullet		Primer	Powder	Starting load		Maximum load	
Weight	Type			Weight	Velocity	Weight	Velocity
[grs]				[grs]	[fps]	[grs]	[fps]

.243 WINCHESTER (6,1 x 52)

LENGTH (mm) 51.94

85	BT	Large Rifle	Tu7000	37.8	3 101	44.0	3 346
90	FMJBT	Large Rifle	Tu5000	31.6	2 850	37.8	3 117
			Tu7000	38.6	2 984	44.8	3 215
100	SPBT	Large Rifle	Tu5000	28.5	2 586	34.7	2 854
			Tu7000	34.0	2 658	40.1	2 887
			T8000	36.3	2 520	42.4	2 723

6 x 62 FRERES ET 6 x 62 R FRERES

LENGTH (mm) 61.75

95	BT	Large Rifle	Tu5000	41.7	3 065	47.8	3 281
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.240 WEATHERBY MAGNUM

LENGTH (mm) 63.50

75	HP	Large Rifle Magnum Match	Tu7000	47.1	3 411	53.2	3 625
90	SSP	Large Rifle Magnum Match	Tu7000	44.0	3 087	50.2	3 297

.243 WSSM

LENGTH (mm) 42.42

70	SP	Large Rifle	Tu5000	33.2	3 238	39.4	3 527
75	V-MAX	Large Rifle	Tu5000	32.4	3 111	38.6	3 396
			Tu7000	39.4	3 266	45.5	3 510
100	PART	Large Rifle	Tu7000	34.7	2 841	40.9	3 084

.25-06 REMINGTON

LENGTH (mm) 63.95

100	SPBT	Large Rifle	Tu5000	40.1	2 703	46.3	2 904
			Tu7000	46.3	3 096	52.5	3 297
			Tu8000	54.0	3 061	60.2	3 232
120	SSP	Large Rifle	Tu7000	42.4	2 789	48.6	2 986
			Tu8000	49.4	2 721	55.6	2 887

6,5 x 39 GRENDL

LENGTH (mm) 38.76

108	Lapua Scenar	Small Rifle Magnum	Tu3000	27.0	2 564	30.1	2 707
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6,5 x 55 SE

LENGTH (mm) 55.00

85	HP	Large Rifle	Tu5000	40.1	3 160	46.3	3 396
120	SPT	Large Rifle	Tu5000	35.5	2 604	41.7	2 822
			Tu7000	39.4	2 656	45.5	2 854

.260 REMINGTON

LENGTH (mm) 51.18

100	PART	Large Rifle Magnum	Tu5000	33.2	2 831	39.4	3 084
120	SPT	Large Rifle Magnum	Tu5000	34.7	2 675	40.9	2 904
			Tu7000	36.3	2 611	42.4	2 822
142	HPBTMK	Large Rifle Magnum	Tu7000	37.8	2 554	44.0	2 756

6,5 x 57 (.256 MAUSER)

LENGTH (mm) 56.70

100	HP	Large Rifle	Tu3000	34.7	2 855	40.9	3 100
			Tu5000	37.8	2 980	44.0	3 215
			Tu7000	40.1	2 809	46.3	3 018
120	SPT	Large Rifle	Tu5000	37.8	2 676	44.0	2 887
			Tu7000	38.6	2 619	44.8	2 822
140	SBT	Large Rifle	Tu7000	37.0	2 505	43.2	2 707
			Tu8000	43.2	2 516	49.4	2 690
140	GS	Large Rifle	Tu5000	36.3	2 458	42.4	2 657



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RIFLE

Bullet		Primer	Powder	Starting load		Maximum load	
Weight	Type			Weight	Velocity	Weight	Velocity
[grs]				[grs]	[fps]	[grs]	[fps]

6,5 x 63 et 6,5 x 63 R MESSNER MAGNUM

LENGTH (mm) 63.00

120	BT	Large Rifle Magnum	Tu7000	57.1	3 131	63.3	3 297
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6,5 x 68

LENGTH (mm) 67.50

93	SSP	Large Rifle Magnum	Tu7000	64.8	3 511	71.0	3 675
			T8000	66.4	3 454	72.5	3 609
100	HP	Large Rifle Magnum	Tu7000	55.6	3 317	61.7	3 494
120	BT	Large Rifle Magnum	Tu8000	61.7	3 159	67.9	3 314
120	HPBTMK	Large Rifle Magnum	Tu7000	54.8	3 125	61.0	3 297
			Tu8000	59.4	3 122	65.6	3 281
140	HPBTMK	Large Rifle Magnum	Tu8000	59.4	2 935	65.6	3 084

.270 WINCHESTER (6,9 x 62)

LENGTH (mm) 64.52

100	SP	Large Rifle	Tu5000	44.8	3 155	50.9	3 363
			Tu7000	54.8	3 171	61.0	3 346
135	HPBTMK	Large Rifle	Tu7000	48.6	2 919	54.8	3 100
143	GPA Sologne	Large Rifle	Tu5000	44.8	2 789	44.8	2 789
150	SBT	Large Rifle	Tu5000	38.6	2 528	44.8	2 723
150	SBT	Large Rifle	Tu7000	46.3	2 742	52.5	2 920
150	GS	Large Rifle	Tu7000	45.5	2 555	51.7	2 723
			Tu8000	51.7	2 759	57.9	2 920
160	PART	Large Rifle	Tu7000	44.8	2 586	50.9	2 756
			Tu8000	50.9	2 571	57.1	2 723

.270 WSM

LENGTH (mm) 53.34

120	FB	Large Rifle Magnum	Tu7000	54.0	3 091	60.2	3 264
			Tu7000	54.0	3 014	60.2	3 182
130	GS	Large Rifle Magnum	Tu8000	59.4	3 075	65.6	3 232
160	PART	Large Rifle Magnum	Tu7000	48.6	2 765	54.8	2 936

.270 WEATHERBY MAGNUM

LENGTH (mm) 66.74

100	HP	Large Rifle Magnum Match	Tu5000	57.9	3 433	64.0	3 609
			Tu7000	64.8	3 416	71.0	3 576
			Tu8000	72.5	3 259	78.7	3 396
150	PART	Large Rifle Magnum Match	Tu8000	64.8	3 071	71.0	3 215

7 x 57 (.276 MAUSER)

LENGTH (mm) 57.00

130	SPBT	Large Rifle	Tu5000	36.3	2 565	42.4	2 772
			Tu7000	44.0	2 672	50.2	2 854
140	PART	Large Rifle	Tu5000	44.0	2 642	50.2	2 822
160	GS	Large Rifle	Tu7000	40.1	2 367	46.3	2 543
175	GS	Large Rifle	Tu7000	39.4	2 351	45.5	2 526
			Tu8000	42.4	2 252	48.6	2 411
168	RCBS mould	Large Rifle	Ba6	13.9	1 335	17.0	1 476

7 x 57 R

LENGTH (mm) 57.00

154	SSP	Large Rifle	Tu5000	38.6	2 406	44.8	2 592
162	SPBT	Large Rifle	Tu5000	31.6	2 235	37.8	2 444
			Tu7000	37.0	2 307	43.2	2 493



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RIFLE

Bullet		Primer	Powder	Starting load		Maximum load	
Weight	Type			Weight	Velocity	Weight	Velocity
[grs]				[grs]	[fps]	[grs]	[fps]

7 x 57 R

LENGTH (mm) 57.00

162	SPBT	Large Rifle	T8000	46.3	2 434	52.5	2 592
175	GS	Large Rifle	Tu7000	39.4	2 259	45.5	2 428
			Tu8000	42.4	2 252	48.6	2 411

7 mm BR

LENGTH (mm) 38.60

145	HPBTMK	Small Rifle Match	Tu3000	21.6	1 894	27.8	2 149
150	HPBTMK	Small Rifle Match	Tu3000	23.1	2 185	29.3	2 461

7 mm-08 REMINGTON

LENGTH (mm) 51.69

115	HP	Large Rifle Match	Tu5000	37.0	2 748	43.2	2 969
145	HPBTMK	Large Rifle Match	Tu5000	35.5	2 512	41.7	2 723
			Tu7000	41.7	2 712	47.8	2 904
150	SBT	Large Rifle Match	Tu5000	34.0	2 507	40.1	2 723
			Tu7000	38.6	2 543	44.8	2 740
162	SPBT	Large Rifle Match	Tu5000	34.0	2 417	40.1	2 625
			Tu7000	39.4	2 443	45.5	2 625
175	GS	Large Rifle Match	Tu7000	37.8	2 357	44.0	2 543

.280 REMINGTON (7,1 x 64)

LENGTH (mm) 64.52

145	HPBTMK	Large Rifle	Tu5000	37.8	2 509	44.0	2 707
			Tu7000	44.0	2 580	50.2	2 756
160	GS	Large Rifle	Tu5000	36.3	2 337	42.4	2 526
175	PART	Large Rifle	Tu5000	34.0	2 236	40.1	2 428
			Tu7000	43.2	2 455	49.4	2 625
175	GS	Large Rifle	Tu5000	33.2	2 138	39.4	2 329
			Tu7000	41.7	2 314	47.8	2 477

7 x 64

LENGTH (mm) 64.00

110	TNTHP	Large Rifle	Tu5000	41.7	2 789	47.8	2 986
			Tu7000	53.2	3 198	59.4	3 379
140	BT	Large Rifle	Tu5000	38.6	2 634	44.8	2 838
			Tu7000	46.3	2 757	52.5	2 936
175	SSP	Large Rifle	Tu5000	41.7	2 405	47.8	2 575
			Tu7000	47.1	2 470	53.2	2 625
			Tu8000	48.6	2 487	54.8	2 641
168	RCBS mould	Large Rifle	A0	21.5	1 741	23.9	1 837

7 x 65 R BRENNKE

LENGTH (mm) 65.00

145	GS	Large Rifle	Tu5000	41.7	2 574	47.8	2 756
			Tu7000	47.1	2 516	53.2	2 674
154	SST	Large Rifle	Tu5000	40.1	2 550	46.3	2 740
			Tu7000	46.3	2 650	52.5	2 822
175	SP	Large Rifle	Tu5000	39.4	2 458	45.5	2 641
			Tu7000	42.4	2 467	48.6	2 641
175	GS	Large Rifle	Tu5000	39.4	2 443	45.5	2 625
			Tu7000	44.0	2 427	50.2	2 592



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RIFLE

Bullet		Primer	Powder	Starting load		Maximum load	
Weight	Type			Weight	Velocity	Weight	Velocity
[grs]				[grs]	[fps]	[grs]	[fps]

7 mm REMINGTON MAGNUM (7 x 63.5)						LENGTH (mm)	63.50
130	SPBT	Large Rifle Magnum	Tu7000	57.9	3 027	64.0	3 182
			Tu8000	64.0	3 070	70.2	3 215
145	GS	Large Rifle Magnum	Tu7000	54.0	2 921	60.2	3 084
			Tu8000	47.8	2 573	69.4	3 100
160	MT	Large Rifle Magnum	Tu7000	50.2	2 742	56.3	2 904
			Tu8000	60.2	2 843	66.4	2 986
162	SST	Large Rifle Magnum	Tu7000	52.5	2 749	58.6	2 904
			Tu8000	59.4	2 841	65.6	2 986

7 mm WEATHERBY MAGNUM						LENGTH (mm)	64.74
100	HP	Large Rifle Magnum	Tu7000	67.1	3 453	73.3	3 609
			Tu7000	64.8	3 291	71.0	3 445
115	HP	Large Rifle Magnum	Tu8000	71.0	3 304	77.2	3 445
			Tu7000	61.7	3 252	67.9	3 412
130	HPBTMK	Large Rifle Magnum	Tu8000	65.6	3 230	71.8	3 379
			Tu7000	61.0	2 956	67.1	3 100
145	SSBT	Large Rifle Magnum	Tu8000	67.1	2 998	73.3	3 133
			Tu7000	61.7	3 065	67.9	3 215
150	PSP	Large Rifle Magnum	Tu8000	67.9	3 062	74.1	3 199
			Tu7000	58.6	2 855	64.8	3 002
160	PART	Large Rifle Magnum	Tu8000	67.1	3 061	73.3	3 199
			Tu7000	54.8	2 690	61.0	2 838
175	MT	Large Rifle Magnum	Tu8000	67.9	2 871	71.0	2 936

7 x WSM						LENGTH (mm)	53.34
130	SSP	Large Rifle Magnum	Tu7000	55.6	3 037	61.7	3 199
145	GS	Large Rifle Magnum	Tu7000	54.0	2 874	60.2	3 035
150	PART	Large Rifle Magnum	Tu7000	54.8	2 892	61.0	3 051
175	PART	Large Rifle Magnum	Tu7000	50.9	2 648	57.1	2 805

.30-30 WINCHESTER (7,62 x 51 R)						LENGTH (mm)	51.80
150	FPSP	Large Rifle	Tu3000	26.2	1 992	32.4	2 215
			Tu5000	27.8	2 077	34.0	2 297
170	FPSP	Large Rifle	Tu3000	23.9	1 783	30.1	2 001
			Tu5000	25.5	1 769	31.6	1 969

.300 SAVAGE (7,62 x 48)						LENGTH (mm)	47.52
130	FPSP	Large Rifle	Tu3000	34.0	2 432	40.1	2 641
			Tu5000	35.5	2 452	41.7	2 657
150	SSP	Large Rifle	Tu3000	32.4	2 269	38.6	2 477
			Tu5000	34.7	2 312	40.9	2 510
170	FPSP	Large Rifle	Tu3000	32.4	2 300	38.6	2 510
			Tu5000	34.7	2 296	40.9	2 493
180	SSP	Large Rifle	Tu5000	31.6	2 129	37.8	2 329
			Tu7000	38.6	2 192	44.8	2 362



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RIFLE

Bullet		Primer	Powder	Starting load		Maximum load	
Weight	Type			Weight	Velocity	Weight	Velocity
[grs]				[grs]	[fps]	[grs]	[fps]

7,5 x 54

LENGTH (mm) 54.00

130	SP	Large Rifle Match	Tu5000	40.9	2 614	47.1	2 805
150	FMJBT	Large Rifle Match	Tu5000	36.3	2 322	42.4	2 510
			Tu7000	42.4	2 436	48.6	2 608
151	GIAT jacketed	Large Rifle Match	Tu5000	42.4	2 559	48.6	2 740

.308 WINCHESTER (7,62 x 51)

LENGTH (mm) 51.18

110	SP	Large Rifle	Tu3000	41.7	2 926	47.8	3 133
130	SP	Large Rifle	Tu3000	39.4	2 870	45.5	3 084
			Tu5000	40.9	2 767	47.1	2 969
150	RWS KS	Large Rifle	Tu3000	36.3	2 550	42.4	2 756
			Tu5000	40.1	2 596	46.3	2 789
150	GS	Large Rifle	Tu5000	38.6	2 573	44.8	2 772
168	HPBTMK	Large Rifle Match	Tu5000	36.3	2 429	42.4	2 625
180	GS	Large Rifle	Tu5000	35.5	2 240	41.7	2 428
200	HPBTMK	Large Rifle Match	Tu5000	34.0	2 205	40.1	2 395
200	GS	Large Rifle	Tu5000	34.0	2 175	40.1	2 362
150	LYMAN mould	Large Rifle	A0	7.7	1 192	12.3	1 506

.30-06 SPRINGFIELD (7,62 X 63)

LENGTH (mm) 63.35

110	SP	Large Rifle	Tu3000	46.3	3 065	52.5	3 264
			Tu5000	47.8	2 902	54.0	3 084
150	GS	Large Rifle	Tu5000	43.2	2 546	49.4	2 723
168	HPBTMK	Large Rifle	Tu5000	41.7	2 436	47.8	2 608
180	SPBT	Large Rifle	Tu5000	40.9	2 461	47.1	2 641
			Tu7000	50.2	2 634	56.3	2 789
190	HPBTMK	Large Rifle	Tu5000	40.1	2 382	46.3	2 559
			Tu7000	45.5	2 416	51.7	2 575

.30-06 CARTRY COURT

LENGTH (mm) 60.80

150	FMJBT	Large Rifle	Tu5000	43.2	2 393	49.4	2 559
180	SSP	Large Rifle	Tu5000	40.1	2 412	46.3	2 592
150	SPEER 1/2 jacketed	Large Rifle	Tu3000	40.1	2 429	46.3	2 610
170	SPEER 1/2 jacketed	Large Rifle	Tu5000	40.1	2 317	46.3	2 490

.30-.284 WINCHESTER

LENGTH (mm) 55.10

168	HPBTMK	Large Rifle	Tu5000	40.1	2 336	46.3	2 510
170	SPEER 1/2 jacketed	Large Rifle	Tu5000	38.6	2 149	44.8	2 315

.300 H & H MAGNUM (7,52 x 72)

LENGTH (mm) 72.39

130	HP	Large Rifle Magnum	Tu5000	52.5	2 997	58.6	3 166
			Tu7000	65.6	3 215	71.8	3 363
168	HPBTMK	Large Rifle Magnum	Tu5000	54.0	2 843	60.2	3 002
			Tu7000	63.3	2 977	69.4	3 117
190	HPBTMK	Large Rifle Magnum	Tu5000	51.7	2 667	57.9	2 822



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RIFLE

Bullet		Primer	Powder	Starting load		Maximum load	
Weight	Type			Weight	Velocity	Weight	Velocity
[grs]				[grs]	[fps]	[grs]	[fps]

.300 H & H MAGNUM (7,52 x 72)						LENGTH (mm)	72.39
190	HPBTMK	Large Rifle Magnum	Tu7000	59.4	2 857	65.6	3 002
200	PART	Large Rifle Magnum	Tu7000	57.1	2 680	63.3	2 822
220	PART	Large Rifle Magnum	Tu7000	53.2	2 484	59.4	2 625
			Tu8000	58.6	2 574	64.8	2 707

.300 WSM						LENGTH (mm)	53.24
150	BT	Large Rifle Magnum	Tu5000	57.1	3 085	63.3	3 248
			Tu7000	63.3	3 165	69.4	3 314
165	GS	Large Rifle Magnum	Tu7000	61.7	2 955	67.9	3 100
165	FB	Large Rifle Magnum	Tu7000	60.2	2 874	66.4	3 018
			Tu8000	67.1	2 919	73.3	3 051
300	GS	Large Rifle Magnum	Tu7000	55.6	2 725	61.7	2 871

.300 WINCHESTER MAGNUM (7,62 x 66)						LENGTH (mm)	66.55
150	GS	Large Rifle Magnum	Tu7000	67.1	2 966	73.3	3 100
			Tu8000	74.8	3 153	81.0	3 281
165	SSP	Large Rifle Magnum	Tu7000	67.9	2 937	74.1	3 068
			Tu8000	77.2	3 159	83.3	3 281
165	RWS KS	Large Rifle Magnum	Tu8000	71.8	3 087	77.9	3 215
180	MT	Large Rifle Magnum	Tu7000	66.4	2 858	72.5	2 986
			Tu8000	72.5	2 866	78.7	2 986
200	GS	Large Rifle Magnum	Tu7000	62.5	2 707	68.7	2 838
			Tu8000	68.7	2 735	74.8	2 854

.308 NORMA MAGNUM						LENGTH (mm)	65.00
180	SST	Large Rifle Magnum	Tu8000	69.4	2 892	75.6	3 018
200	SSP	Large Rifle Magnum	Tu8000	62.5	2 534	68.7	2 657

.300 WEATHERBY MAGNUM (7,62 x 71,5)						LENGTH (mm)	71.76
165	BT	Large Rifle Magnum	Tu7000	68.7	3 066	74.8	3 199
			Tu8000	79.5	3 241	85.6	3 363
180	PART	Large Rifle Magnum	Tu7000	71.8	2 961	77.9	3 084
			Tu8000	79.5	3 115	85.6	3 232
190	HPBTMK	Large Rifle Magnum	Tu7000	69.4	3 002	75.6	3 133
190	HPBTMK	Large Rifle Magnum	Tu8000	74.1	2 996	80.2	3 117
200	SSP	Large Rifle Magnum	Tu7000	68.7	2 814	74.8	2 936
			Tu8000	72.5	2 771	78.7	2 887

.303 BRITISH (7,62 x 56R)						LENGTH (mm)	56.44
150	SPT	Large Rifle	Tu3000	35.5	2 452	41.7	2 657
			Tu5000	37.8	2 509	44.0	2 707
174	FMJBT	Large Rifle	Tu5000	35.5	2 361	41.7	2 559
180	RNSP	Large Rifle	Tu5000	35.5	2 145	40.1	2 280



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RIFLE

Bullet		Primer	Powder	Starting load		Maximum load	
Weight	Type			Weight	Velocity	Weight	Velocity
[grs]				[grs]	[fps]	[grs]	[fps]

.303 SPORTING				LENGTH (mm) 52.82			
150	SP	Large Rifle	Tu3000	30.9	2 399	37.0	2 625
			Tu5000	33.2	2 424	39.4	2 641
150	SPEER 1/2 jacketed	Large Rifle	Tu5000	29.3	1 990	35.5	2 190

8 x 57 IS OU JS				LENGTH (mm) 56.90			
170	SP	Large Rifle	Tu5000	41.7	2 452	47.8	2 625
			Tu5000	42.4	2 498	48.6	2 674
180	BT	Large Rifle	Tu7000	46.3	2 403	52.5	2 559
			Tu5000	47.8	2 470	54.0	2 625
			Tu7000	52.5	2 531	58.6	2 674
185	RNSP	Large Rifle	Tu5000	38.6	2 132	44.8	2 297
			Tu7000	43.2	2 148	49.4	2 297
200	HPBTMK	Large Rifle	Tu7000				

8 x 57 IRS OU JRS				LENGTH (mm) 56.90			
125	SP	Large Rifle	Tu5000	44.8	2 693	50.9	2 871
170	SSP	Large Rifle	Tu5000	41.7	2 452	47.8	2 625

8 x 60 S et 8 x 60 RS				LENGTH (mm) 60.00			
170	SP	Large Rifle	Tu5000	43.2	2 516	49.4	2 690
			Tu5000	46.3	2 449	52.5	2 608
200	SP	Large Rifle	Tu7000	46.3	2 334	57.1	2 592

8 x 64 S BRENNEKE et 8 x 65 RS BRENNEKE				LENGTH (mm) 64.00			
170	SSP	Large Rifle	Tu5000	44.8	2 432	50.9	2 592
			Tu7000	40.1	2 182	61.7	2 707
198	RWS TIG	Large Rifle	Tu8000	64.8	2 601	71.0	2 723

8 x 68				LENGTH (mm) 67.50			
175	SP	Large Rifle Magnum	Tu7000	71.0	3 068	77.2	3 199
200	PART	Large Rifle Magnum	Tu8000	66.4	2 574	72.5	2 690

.338 WINCHESTER MAGNUM				LENGTH (mm) 63.50			
	PART	Large Rifle Magnum	Tu7000	65.6	2 760	71.8	2 887
			Tu7000	65.6	2 650	71.8	2 772
	RNSP	Large Rifle Magnum	Tu8000	67.9	2 418	74.1	2 526

.340 WEATHERBY MAGNUM				LENGTH (mm) 71.63			
			Tu7000	77.9	2 984	84.1	3 100
			Tu8000	88.0	3 014	94.1	3 117

.35 WHELEN REMINGTON				LENGTH (mm) 63.35			
			Tu5000	52.5	2 593	58.6	2 740
			Tu7000	57.9	2 434	64.0	2 559
180	FNPS	Large Rifle Magnum	Tu5000	52.5	2 531	58.6	2 674
200	SPRN	Large Rifle Magnum	Tu5000	47.8	2 238	54.0	2 379
220	FPSP	Large Rifle Magnum	Tu5000	51.7	2 232	57.9	2 362
250	PART	Large Rifle Magnum	Tu7000				



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RIFLE

Bullet		Primer	Powder	Starting load		Maximum load	
Weight	Type			Weight	Velocity	Weight	Velocity
[grs]				[grs]	[fps]	[grs]	[fps]

.350 REMINGTON MAGNUM

LENGTH (mm) 55.12

200	SP	Large Rifle Magnum	Tu5000	54.0	2 564	60.2	2 707
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9,3 x 62

LENGTH (mm) 62.00

250	BT	Large Rifle	Tu5000	49.4	2 397	55.6	2 543
270	SP	Large Rifle	Tu5000	50.2	2 354	56.3	2 493
			Tu7000	57.9	2 419	64.0	2 543

9,3 x 74 R

LENGTH (mm) 74.70

225	RWS DK	Large Rifle	Tu3000	52.5	2 407	58.6	2 543
238	GPA Sologne	Large Rifle	Tu3000	50.9	2 478	57.1	2 625
250	BT	Large Rifle	Tu5000	50.9	2 308	57.1	2 444
270	SP	Large Rifle	Tu5000	48.6	2 163	54.8	2 297
			Tu7000	58.6	2 184	64.8	2 297
286	PART	Large Rifle	Tu5000	47.8	2 176	54.0	2 313
			Tu7000	57.9	2 278	64.0	2 395

9,3 x 64 BRENNEKE

LENGTH (mm) 64.00

250	FB	Large Rifle Magnum	Tu5000	58.6	2 621	64.8	2 756
			Tu7000	69.4	2 672	75.6	2 789
286	PART	Large Rifle Magnum	Tu5000	57.1	2 430	63.3	2 559
			Tu7000	69.4	2 577	75.6	2 690

.375 H & H MAGNUM (9,52 x 73 R)

LENGTH (mm) 72.39

200	FP	Large Rifle Magnum	Tu3000	71.0	3 115	77.2	3 248
235	SSP	Large Rifle Magnum	Tu5000	61.7	2 471	67.9	2 592
			Tu7000	78.9	2 736	84.9	2 838
285	GS	Large Rifle Magnum	Tu5000	57.9	2 278	64.0	2 395
			Tu7000	72.5	2 471	78.7	2 575
300	SPBT	Large Rifle Magnum	Tu5000	63.3	2 429	69.4	2 543
			Tu7000	70.2	2 453	76.4	2 559

.378 WEATHERBY MAGNUM

LENGTH (mm) 73.99

257	GPA Sologne	Large Rifle Magnum	Tu8000	109.6	3 066	115.7	3 150
270	FB	Large Rifle Magnum	Tu8000	104.2	2 823	110.3	2 904

.416 REMINGTON MAGNUM

LENGTH (mm) 72.39

400	PART	Large Rifle Magnum	Tu5000	57.9	2 100	79.5	2 461
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.416 RIGBY

LENGTH (mm) 73.66

362	GPA Sologne	Large Rifle Magnum	Tu7000	88.74	2 345	94.91	2 424
400	FMJRN	Large Rifle Magnum	Tu7000	82.56	2 263	88.74	2 345

45-70 GOVERNMENT (11,5 x 53 R)

LENGTH (mm) 53.47

300	FPHP	Large Rifle	Tu3000	46.30	1 742	52.47	1 853
300	HPFN	Large Rifle	Tu3000	37.81	1 506	43.98	1 624
405	FPSP	Large Rifle	Tu3000	40.12	1 312	46.30	1 410
			Tu5000	43.21	1 381	49.38	1 476
405	LYMAN mould	Large Rifle	Tu3000	32.41	1 233	38.58	1 345



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RIFLE

Bullet		Primer	Powder	Starting load		Maximum load	
Weight	Type			Weight	Velocity	Weight	Velocity
[grs]				[grs]	[fps]	[grs]	[fps]

.458 WINCHESTER MAGNUM (11,6 x 63)

LENGTH (mm) 63.70

350	FP	Large Rifle Magnum	Tu3000	69.45	2 309	75.62	2 411
400	FB	Large Rifle Magnum	Tu3000	64.82	2 224	70.99	2 329
400	FPSP	Large Rifle Magnum	Tu3000	64.82	2 070	70.99	2 165
500	RNSP	Large Rifle Magnum	Tu3000	64.04	2 004	70.22	2 099
			Tu5000	70.99	2 060	77.16	2 148

.458 LOTT

LENGTH (mm) 71.12

448	RN	Large Rifle Magnum	Tu3000	44.75	1 902	79.94	2 542
465	A-SQUARE Monolithic Solid	Large Rifle Magnum	Tu3000	70.99	2 171	77.16	2 263
500	RNSP	Large Rifle Magnum	Tu5000	69.45	2 089	75.62	2 181

.460 WEATHERBY MAGNUM

LENGTH (mm) 73.99

500	SPRN	Large Rifle Magnum Match	Tu5000	91.05	2 316	97.22	2 394
			Tu7000	109.57	2 473	115.74	2 542

.600 NITRO EXPRESS

LENGTH (mm) 76.20

900	RNSP	Large Rifle Magnum	Tu8000	155.87	1 916	162.04	1 952
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CORRESPONDENCE PRIMERS

	Cheddite	NSM	CCI	Federal	Remington	RWS	Winchester
Small Pistol			500	100	1 ½	4031	WSP
Small Pistol Magnum			550	200	5 ½	4047	WSPM
Small Pistol Match				100M			
Small Pistol Magnum Match				200M			
Large Pistol			300	150	2 ½	5337	WLP
Large Pistol Magnum			350	155			
Large Pistol Match				150M			
Large Pistol Magnum Match				155M			
Small Rifle			400	205	6 ½	4033	WSR
Small Rifle Magnum			450		7 ½		
Small Rifle Match			BR4	205M			
Small Rifle NATO			# 41				
Large Rifle			200	210	9 ½	5341	WLR
Large Rifle Magnum			250	215	9 ½M	5333	WLRM
Large Rifle Match			BR2	210M			
Large Rifle Magnum Match				215M			
Large Rifle NATO			# 34				
50 BMG			# 35				8312
410 Shotshell	209-CX2000	209/684 209/686 209/688	209 209M	209	410		W209
12, 16, 20 Gauge Shotshell	209-CX2000	209/684 209/686 209/688	209 209M	209	209		W209

ABBREVIATIONS OF BULLETS

AB	Accu Bond	JSP	Jacketed Soft Point	SPBT	Soft Point Boat Tail
AF	A Frame	JSWC	Jacketed Semi-Wadcutter	SPH	Soft Point Hornet
A-Max	Hornady Match	KSPB	Keith Style Pistol Bullet	SPHJ	Soft Point Heavy Jacket
BB	Broad Base	LBBWC	Lead Conical Nose	SPSX	Spire Point Super Explosive
BK	Blitz King	(L)	Lead	SS	Semi-Spitzer
BND	Bonded	LCN	Lead Flat Nose	SSP	Single Shot Pistol
BND-S	Banded Solid	LFNGC	Long Flat Gas Check	SPT	Spitzer
BR	Bench Rest	LFNPB	Long Flat Nose Plane Base	SPT-V	Spitzer Varmint
BS	Ballistic Silver Tip	FFN	Lead Flat Nose Plain Base	SST	Super Shock Tip
BT	Ballistic Tip	LFNPB	Lead Flat Point	ST	Silvertip
BTT	Boat Tail Spire Point	LFP	Lead Flat Point	SX	Super Explosive
DBB	Double Bevel Base	LHBWC	Lead Hollow Base Wadcutter	SWC	Semi-Wadcutter
CT	Combined Technologies	LRN	Lead Round Nose	TAC-XP	Tactical Bullet M/LE
DEWC	Double End Wadcutter	LTB	Length Tolerant Bullet	TC	Truncated Cone
FBHP-V	Flat Base	LSWC	Lead semi-Wadcutter	TMJ	Totally Metall Jacket
FBHP-V	Flat Base Hollow Point Varmint	(M)	Moly Coated	TNT	Varmint Bullet
FMC	Full Metall Case	Match-V	Match Varmint	TSX	Triple Shock X Bullet
FMJ	Full Metall Jacket	MC	Metall Case	T-TSX	Tipped TSX
FMJBT	Full Metall Jacket Boat Tail	MK	Match King	VAR	Varminator
FN	Flat Nose	MRX	Maximum Range X Bullet	VG	Varmint Grenade
FP	Flat Point	MT-SP	Mag Tip Soft Point	VLD	Very Low Drag
FPJ	Full Plated Jacket	NTP	Narrow Taper Point	V-MAX	Varmint Express
FS	Fail Safe	PART	Partition	VNE	Varmint Nightmare Extreme
GC	Gas Check	PLF	Plated Lead Free	WC	Wadcutter
GD	Gold Dot Soft Point	PRO-H	Pro-Hunter	WFN	Wide Flat Nose
GK	Game King	PSPCL	Pointed Soft Point "Core-Lokt"	WLCPP	Weldcore Protected Point
GS	Grand Slam	RHFP	Reduced Hazard Flat Point	WLN	Wide Long Nose
HB	Hollow Base	RN	Round Nose	WNGC	Wide Nose Gas Check
HC	Hollow Cavity	RNDS	Round Nose Double Strike	WTP	Wide taper Point
HP	Hollow Point	RS	Radiused Shoulder	W/GC	With Gas Check
HPBT	Hollow Point Boat Tail	SB	Solid Base	X	X Bullet
HSP	Hollow Soft Point	SBT	Spitzer Boat Tail	XBT	X Boat Tail
IB	Inter Bond	SCIR	Scirocco	XBTC	X Boat Tail Coated
INTK	Interlock	SGG	Single Grease Groove	XFB	X Flat Base
JFP	Jacketed Flat Point	SJ	Short Jacket	XPB	X Pistol Bullet
JHC	Jacketed Hollow Cavity	SLD	Solid	XTP	Extreme Terminal Performance
JHP	Jacketed Hollow Point	SMP	Semi-Point		
JRN	Jacketed Round Nose	SP	Soft Point, Spitzer, Spire Point		

RECOMMANDATIONS FOR USE OF VECTAN POWDERS FOR RIFLE (NON EXHAUSTIVE LIST OF CALIBERS)

CALIBRES	VECTAN	A0	Ba9	Tu3000	Tu5000	Tu7000	Tu8000
.17 Remington							
5,6 x 35 R							
.22 Hornet (5,6 x 35 R)							
5,6 x 50 R Magnum							
.222 Remington (5,7 x 43)							
.22 PPC-USA							
.223 Remington (5,56 US ou 5,56 x 45)							
.222 Remington Magnum (5,7 x 47)							
.22-250 Remington (5,6 x 49 R)							
.223 WSSM							
5,6 x 57 RWS et 5,6 x 57 RWS							
6mm PPC et 6 mm PPC-USA							
6 mm Remington BR et 6 mm BR Norma							
.243 Winchester (6,1 x 52)							
6 x 62 FRERES et 6 x 62 FRERES							
.240 Weatherby Magnum							
.243 WSSM							
.25-06 Remington							
6,5 x 39 Grendel							
6,5 x 55 SE							
.260 Remington							
6,5 x 57 (.256 Mauser)							
6,5 x 63 et 6,5 x 63 R Messner Magnum							
6,5 x 68							
.270 Winchester (6,9 x 62)							
.270 WSM							
.270 Weatherby Magnum							
7 x 57 (.276 Mauser)							
7 x 57 R							
7mm BR							
7 mm-08 Remington							
.280 Remington (7,1 x 64)							
7 x 64							
7 x 65 R Brenneke							
7 mm Weatherby Magnum							
7 mm WSM							
.30-30 Winchester (7,62 x 51 R)							
.300 Savage (7,62 x 48)							
7,5 x 54							
.308 Winchester (7,62 x 51)							
.30-06 Springfield (7,62 x 63)							
.30-06 Cartry Court							
.30-284 Winchester							
.300 H & H Magnum (7,52 x 72)							
.300 WSM							
.300 Winchester Magnum (7,62 x 66)							
.308 Norma Magnum							
.300 Weatherby Magnum (7,62 x 71,5)							
.303 British (7,62 x 56 R)							
.303 Sporting							
8 x 57 IS ou JS							
8 x 57 IRS ou JRS							
8 x 60 S et 8 x 60 RS							
8 x 64 S Brenneke et 8 x 65 RS Brenneke							
8 x 68							
.338 Winchester Magnum							
.340 Weatherby Magnum							
.35 Whelen Remington							
.350 Remington Magnum							
9,3 x 62							
9,3 x 74 R							
9,3 x 64 Brenneke							
.375 H & H Magnum (9,52 x 73 R)							
.378 Weatherby Magnum							
.416 Remington Magnum							
.416 Rigby							
45-70 Government (11,5 x 53 R)							
.458 Winchester Magnum (11,6 x 63)							
.458 Lott							
.460 Weatherby Magnum							
.600 Nitro Express							

For lead bullets reloading

For lead bullets reloading

RECOMMANDATIONS FOR USE OF VECTAN POWDERS FOR PISTOL AND REVOLVER (NON EXHAUSTIVE LIST OF CALIBERS)

CALIBRES \ VECTAN	Ba10	Ba9 1/2	AS	A1	Ba9	Ba7 1/2	A0	Ba6 1/2	Ba6
6,35 Browning (25 Auto) (25 ACP)									
7.62 x 25 Tokarev									
7,65 Browning (32 Auto) (32 ACP)									
.32 Smith & Wesson Long NP									
.32 Smith & Wesson Long Wadcutter									
9 mm Parabellum (9 Luger) (9 x 19)									
9 x 21									
.357 SIG									
.38 Spécial Wadcutter									
.38 Special									
.38 Super Auto									
.357 Magnum									
.357 Remington maximum									
.40 Smith & Wesson									
10 mm Auto									
.41 Action Express									
.41 Remington Magnum									
.44 Remington Magnum									
.44 Smith & Wesson Spécial									
.45 Colt (45 Long Colt)									
.45 ACP (45 mod-1911)									
.45 Winchester Magnum									
.454 Casull									
.50 Action Express									
.500 Smith & Wesson Magnum									

VECTAN

SHOTSHELL RELOADING



NOBELSPORT



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A24	SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
	12 GA. 2 3/4, A24 POWDER, LEAD SHOT, FOLD CRIMP							
	Ounce					Grains	FPS	PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12L	A24	18.0 gr	1300	10,200 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12L	A24	18.5 gr	1325	10,800 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12L	A24	18.9 gr	1350	11,000 PSI
	7/8 oz.	Winchester AA HS	Win 209	Claybuster 4100-12B	A24	17.1 gr	1265	10,000 PSI
	7/8 oz.	Winchester AA HS	Win 209	Claybuster 4100-12B	A24	17.9 gr	1300	10,300 PSI
	7/8 oz.	Cheddite	Ched 209	Rex24	A24	17.8 gr	1250	9,200 PSI
	7/8 oz.	Cheddite	Ched 209	Rex24	A24	18.9 gr	1300	9,800 PSI
	7/8 oz.	Cheddite	Ched 209	SuperSpark	A24	17.1 gr	1225	8,400 PSI
	7/8 oz.	Cheddite	Ched 209	SuperSpark	A24	17.7 gr	1250	8,600 PSI
	7/8 oz.	Cheddite	Ched 209	SuperSpark	A24	20.0 gr	1350	9,900 PSI
	7/8 oz.	Cheddite	Ched 209	Nobel Sport GTT3	A24	16.9 gr	1200	8,200 PSI
	7/8 oz.	Cheddite	Ched 209	Nobel Sport GTT3	A24	19.1 gr	1300	9,300 PSI

PRIMA SV	SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
	12 GA. 2 3/4, PRIMA SV POWDER, LEAD SHOT, FOLD CRIMP							
	Ounce					Grains	FPS	PSI
	7/8 oz.	Remington STS	Ched 209	Claybuster 4100-12B	PRIMA SV	18.0 gr	1250	8,800 PSI
	7/8 oz.	Remington STS	Rem 209	Claybuster 4100-12B	PRIMA SV	18.1 gr	1250	8,800 PSI

VECTAN

SHOTSHELL RELOADING

PRIMA SV	SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
	12 GA. 2 3/4, PRIMA SV POWDER, LEAD SHOT, FOLD CRIMP							
	Ounce					Grains	FPS	PSI
	7/8 oz.	Remington STS	Rem 209	Claybuster 4100-12B	PRIMA SV	19.1 gr	1290	9,500 PSI
	7/8 oz.	Winchester AA HS	Win 209	Claybuster 4100-12B	PRIMA SV	17.7 gr	1250	9,000 PSI
	7/8 oz.	Winchester AA HS	Ched 209	Claybuster 4100-12B	PRIMA SV	19.9 gr	1375	10,800 PSI
	7/8 oz.	Winchester AA HS	Win 209	Claybuster 4100-12B	PRIMA SV	19.9 gr	1350	10,400 PSI
	7/8 oz.	Winchester AA HS	Win 209	Remington TGT12	PRIMA SV	20.0 gr	1365	10,500 PSI
	7/8 oz.	Winchester AA HS	Ched 209	Winchester WAA12L	PRIMA SV	17.7 gr	1275	9,300 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12L	PRIMA SV	17.7 gr	1250	8,900 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12L	PRIMA SV	18.0 gr	1265	9,200 PSI
	7/8 oz.	Cheddite	Ched 209	Nobel Sport GTT3	PRIMA SV	18.1 gr	1200	7,600 PSI
	7/8 oz.	Cheddite	Ched 209	Nobel Sport GTT3	PRIMA SV	19.0 gr	1250	8,100 PSI
	7/8 oz.	Cheddite	Ched 209	Nobel Sport GTT3	PRIMA SV	20.1 gr	1300	8,600 PSI
	7/8 oz.	Cheddite	Ched 209	SuperSpark	PRIMA SV	17.9 gr	1200	7,800 PSI
	7/8 oz.	Cheddite	Ched 209	SuperSpark	PRIMA SV	19.9 gr	1300	8,700 PSI
	7/8 oz.	Cheddite	Ched 209	Rex 24	PRIMA SV	18.0 gr	1200	8,100 PSI
	7/8 oz.	Cheddite	Ched 209	Rex 24	PRIMA SV	18.9 gr	1250	8,600 PSI
	7/8 oz.	Cheddite	Ched 209	Rex 24	PRIMA SV	20.1 gr	1300	9,100 PSI

PRIMA V	SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
	12 GA. 2 3/4, PRIMA V POWDER, LEAD SHOT, FOLD CRIMP							
	Ounce					Grains	FPS	PSI
	3/4 oz.	Winchester AA HS	Win 209	SuperSpark	PRIMA V	18.0 gr	1275	8,500 PSI
	3/4 oz.	Winchester AA HS	Win 209	SuperSpark	PRIMA V	20.0 gr	1350	8,900 PSI
	3/4 oz.	Winchester AA HS	Win 209	SuperSpark	PRIMA V	22.0 gr	1450	9,800 PSI
	7/8 oz.	Remington STS	Rem 209	L078 Lightning	PRIMA V	18.3 gr	1250	9,200 PSI
	7/8 oz.	Remington STS	Rem 209	L078 Lightning	PRIMA V	19.6 gr	1300	9,700 PSI
	7/8 oz.	Remington STS	Ched 209	Remington TGT12	PRIMA V	18.0 gr	1250	9,200 PSI
	7/8 oz.	Remington STS	Rem 209	Remington TGT12	PRIMA V	18.2 gr	1200	8,100 PSI
	7/8 oz.	Remington STS	Rem 209	Remington TGT12	PRIMA V	18.9 gr	1250	8,900 PSI
	7/8 oz.	Remington STS	Rem 209	Remington TGT12	PRIMA V	19.8 gr	1300	9,300 PSI
	7/8 oz.	Remington STS	Rem 209	Remington TGT12	PRIMA V	20.7 gr	1350	9,900 PSI
	7/8 oz.	Remington STS	Rem 209	Winchester WAA12L	PRIMA V	18.0 gr	1200	7,800 PSI
	7/8 oz.	Remington STS	Rem 209	Winchester WAA12L	PRIMA V	18.5 gr	1250	8,400 PSI
	7/8 oz.	Remington STS	Rem 209	Winchester WAA12L	PRIMA V	19.8 gr	1300	9,000 PSI
	7/8 oz.	Remington STS	Rem 209	Winchester WAA12L	PRIMA V	20.5 gr	1350	9,500 PSI

VECTAN

SHOTSHELL RELOADING

PRIMA V	SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
	12 GA. 2 3/4, PRIMA V POWDER, LEAD SHOT, FOLD CRIMP							
	Ounce					Grains	FPS	PSI
	7/8 oz.	Remington STS	Rem 209	Winchester WAA12SL	PRIMA V	18.0 gr	1200	7,900 PSI
	7/8 oz.	Remington STS	Rem 209	Winchester WAA12SL	PRIMA V	18.6 gr	1250	8,400 PSI
	7/8 oz.	Remington STS	Rem 209	Winchester WAA12SL	PRIMA V	19.8 gr	1300	8,800 PSI
	7/8 oz.	Remington STS	Rem 209	Winchester WAA12SL	PRIMA V	21.1 gr	1350	9,400 PSI
	7/8 oz.	Winchester AA HS	Ched 209	Claybuster 0178-12	PRIMA V	17.1 gr	1250	9,200 PSI
	7/8 oz.	Winchester AA HS	Win 209	L078 Lightning	PRIMA V	17.3 gr	1200	8,400 PSI
	7/8 oz.	Winchester AA HS	Win 209	L078 Lightning	PRIMA V	18.2 gr	1250	9,000 PSI
	7/8 oz.	Winchester AA HS	Win 209	SuperSpark	PRIMA V	16.2 gr	1150	8,400 PSI
	7/8 oz.	Winchester AA HS	Win 209	SuperSpark	PRIMA V	17.3 gr	1200	9,000 PSI
	7/8 oz.	Winchester AA HS	Win 209	SuperSpark	PRIMA V	18.1 gr	1250	9,500 PSI
	7/8 oz.	Winchester AA HS	Win 209	SuperSpark	PRIMA V	18.2 gr	1265	9,600 PSI
	7/8 oz.	Winchester AA HS	Win 209	SuperSpark	PRIMA V	19.1 gr	1300	9,800 PSI
	7/8 oz.	Winchester AA HS	Win 209	SuperSpark	PRIMA V	20.4 gr	1350	10,400 PSI
	7/8 oz.	Winchester AA HS	Win 209	Remington TGT12	PRIMA V	17.2 gr	1200	8,200 PSI
	7/8 oz.	Winchester AA HS	Win 209	Remington TGT12	PRIMA V	18.4 gr	1250	8,900 PSI
	7/8 oz.	Winchester AA HS	Win 209	Remington TGT12	PRIMA V	19.3 gr	1300	9,500 PSI
	7/8 oz.	Winchester AA HS	Win 209	Remington TGT12	PRIMA V	20.7 gr	1350	10,000 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12L	PRIMA V	17.2 gr	1200	8,200 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12L	PRIMA V	18.4 gr	1250	8,700 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12L	PRIMA V	19.3 gr	1300	9,300 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12L	PRIMA V	20.7 gr	1350	9,800 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12SL	PRIMA V	17.5 gr	1200	8,200 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12SL	PRIMA V	18.6 gr	1250	8,500 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12SL	PRIMA V	19.4 gr	1300	9,200 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12SL	PRIMA V	21.1 gr	1350	9,700 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12SL	PRIMA V	22.0 gr	1400	10,100 PSI
	7/8 oz.	Cheddite	Ched 209	Nobel Sport GTT3	PRIMA V	18.9 gr	1250	8,000 PSI
	7/8 oz.	Cheddite	Ched 209	Nobel Sport GTT3	PRIMA V	21.4 gr	1350	9,000 PSI
	7/8 oz.	Cheddite	Ched 209	European Mighty Light	PRIMA V	19.1 gr	1250	8,100 PSI
	7/8 oz.	Cheddite	Ched 209	European Mighty Light	PRIMA V	21.3 gr	1350	9,200 PSI
	7/8 oz.	Cheddite	Ched 209	Rex24	PRIMA V	17.9 gr	1200	8,200 PSI
	7/8 oz.	Cheddite	Ched 209	Rex24	PRIMA V	19.0 gr	1250	8,500 PSI
	7/8 oz.	Cheddite	Ched 209	Rex24	PRIMA V	20.0 gr	1300	8,800 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	PRIMA V	19.5 gr	1200	8,700 PSI

VECTAN

SHOTSHELL RELOADING

PRIMA V	SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
	12 GA. 2 3/4, PRIMA V POWDER, LEAD SHOT, FOLD CRIMP							
	Ounce					Grains	FPS	PSI
	1 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	PRIMA V	20.5 gr	1250	9,200 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Fiocchi 27	PRIMA V	19.5 gr	1250	10,200 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Fiocchi 27	PRIMA V	20.4 gr	1300	10,800 PSI
	1 oz.	Fiocchi	Fio 616	Fiocchi 27	PRIMA V	19.3 gr	1200	8,900 PSI
	1 oz.	Fiocchi	Fio 616	Fiocchi 27	PRIMA V	21.0 gr	1275	9,700 PSI
	1 oz.	Remington STS	Rem 209	Remington R12L	PRIMA V	19.0 gr	1200	9,100 PSI
	1 oz.	Remington STS	Rem 209	Remington R12L	PRIMA V	20.0 gr	1250	9,700 PSI
	1 oz.	Remington STS	Rem 209	Remington R12L	PRIMA V	21.3 gr	1300	10,500 PSI
	1 oz.	Remington STS	Rem 209	Remington RXP12	PRIMA V	19.0 gr	1200	9,100 PSI
	1 oz.	Remington STS	Ched 209	Remington RXP12	PRIMA V	19.9 gr	1300	11,000 PSI
	1 oz.	Remington STS	Rem 209	Remington RXP12	PRIMA V	20.0 gr	1250	9,700 PSI
	1 oz.	Remington STS	Rem 209	Remington RXP12	PRIMA V	21.5 gr	1300	10,200 PSI
	1 oz.	Remington STS	Rem 209	Remington TGT12	PRIMA V	19.0 gr	1200	9,300 PSI
	1 oz.	Remington STS	Rem 209	Remington TGT12	PRIMA V	20.1 gr	1250	10,000 PSI
	1 oz.	Remington STS	Rem 209	Remington TGT12	PRIMA V	21.2 gr	1300	10,500 PSI
	1 oz.	Remington STS	Rem 209	Winchester WAA12SL	PRIMA V	20.1 gr	1250	9,500 PSI
	1 oz.	Winchester AA HS	Win 209	Remington FIG8	PRIMA V	18.3 gr	1200	9,300 PSI
	1 oz.	Winchester AA HS	Win 209	Remington FIG8	PRIMA V	19.7 gr	1250	9,900 PSI
	1 oz.	Winchester AA HS	Win 209	Remington RXP12	PRIMA V	18.4 gr	1200	9,500 PSI
	1 oz.	Winchester AA HS	Win 209	Remington RXP12	PRIMA V	19.4 gr	1250	10,400 PSI
	1 oz.	Winchester AA HS	Win 209	Remington RXP12	PRIMA V	20.6 gr	1300	11,000 PSI
	1 oz.	Winchester AA HS	Win 209	Short Range Crusher	PRIMA V	16.1 gr	1100	8,900 PSI
	1 oz.	Winchester AA HS	Ched 209	Winchester WAA12SL	PRIMA V	18.1 gr	1225	9,900 PSI
	1 oz.	Winchester AA HS	Win 209	Winchester WAA12SL	PRIMA V	18.2 gr	1200	9,200 PSI
	1 oz.	Winchester AA HS	Win 209	Winchester WAA12SL	PRIMA V	19.5 gr	1250	9,900 PSI
	1 oz.	Winchester AA HS	Win 209	Winchester WAA12SL	PRIMA V	20.4 gr	1285	10,200 PSI
	1 oz.	Winchester AA HS	Win 209	Winchester WAA12SL	PRIMA V	20.8 gr	1300	10,400 PSI
	1 oz.	Cheddite	Ched 209	Nobel Sport AQT2	PRIMA V	18.4 gr	1200	9,100 PSI
	1 oz.	Cheddite	Ched 209	Nobel Sport AQT2	PRIMA V	19.3 gr	1250	9,800 PSI
	1 oz.	Cheddite	Ched 209	Short Range Crusher	PRIMA V	18.8 gr	1200	8,800 PSI
	1 oz.	Cheddite	Ched 209	Short Range Crusher	PRIMA V	19.9 gr	1250	9,100 PSI
	1 oz.	Cheddite	Ched 209	Spitfire	PRIMA V	21.1 gr	1250	8,800 PSI
	1 1/8 oz.	Cheddite	Ched 209	Federal 12S0	PRIMA V	21.0 gr	1200	9,500 PSI
	1 1/8 oz.	Cheddite	Ched 209	Federal 12S0	PRIMA V	22.0 gr	1250	10,100 PSI

VECTAN

SHOTSHELL RELOADING

PRIMA V	SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
	12 GA. 2 3/4, PRIMA V POWDER, LEAD SHOT, FOLD CRIMP							
	Ounce					Grains	FPS	PSI
	1 1/8 oz.	Cheddite	Ched 209	Federal 12S0	PRIMA V	23.0 gr	1300	10,900 PSI
	1 1/8 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	PRIMA V	20.0 gr	1185	10,000 PSI
	1 1/8 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	PRIMA V	21.0 gr	1230	10,500 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Helix Cushion Driver 21	PRIMA V	15.9 gr	1050	9,000 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Winchester WAA12	PRIMA V	18.0 gr	1150	10,000 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Winchester WAA12	PRIMA V	19.1 gr	1200	10,700 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Winchester WAA12	PRIMA V	19.4 gr	1230	10,900 PSI

AS	SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
	12 GA. 2 3/4, AS POWDER, LEAD SHOT, FOLD CRIMP							
	Ounce					Grains	FPS	PSI
	7/8 oz.	Federal Gold Medal	Fed 209A	Claybuster 4100-12B	AS	19.2 gr	1200	7,200 PSI
	7/8 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	AS	17.5 gr	1150	7,200 PSI
	7/8 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	AS	19.1 gr	1250	8,000 PSI
	7/8 oz.	Remington STS	Ched 209	Claybuster CB0178-12	AS	18.2 gr	1250	8,600 PSI
	7/8 oz.	Remington STS	Rem 209	Federal 12S0	AS	16.9 gr	1200	8,000 PSI
	7/8 oz.	Remington STS	Rem 209	Federal 12S0	AS	18.1 gr	1250	8,700 PSI
	7/8 oz.	Remington STS	Rem 209	Federal 12S0	AS	19.2 gr	1300	9,200 PSI
	7/8 oz.	Remington STS	Rem 209	Federal 12S0	AS	20.3 gr	1350	10,300 PSI
	7/8 oz.	Remington STS	Rem 209	L078 Lightning	AS	16.8 gr	1200	8,800 PSI
	7/8 oz.	Remington STS	Rem 209	L078 Lightning	AS	18.0 gr	1250	9,100 PSI
	7/8 oz.	Remington STS	Rem 209	L078 Lightning	AS	19.1 gr	1300	9,400 PSI
	7/8 oz.	Remington STS	Rem 209	L078 Lightning	AS	20.4 gr	1350	10,400 PSI
	7/8 oz.	Remington STS	Ched 209	Remington TGT12	AS	16.8 gr	1225	8,900 PSI
	7/8 oz.	Remington STS	Rem 209	Remington TGT12	AS	16.8 gr	1185	8,000 PSI
	7/8 oz.	Remington STS	Rem 209	Remington TGT12	AS	17.0 gr	1200	8,200 PSI
	7/8 oz.	Remington STS	Rem 209	Remington TGT12	AS	18.2 gr	1250	8,800 PSI
	7/8 oz.	Remington STS	Rem 209	Remington TGT12	AS	19.2 gr	1300	9,400 PSI
	7/8 oz.	Remington STS	Rem 209	Remington TGT12	AS	20.3 gr	1350	10,200 PSI
	7/8 oz.	Remington STS	Rem 209	Winchester WAA12L	AS	17.2 gr	1200	7,800 PSI
	7/8 oz.	Remington STS	Ched 209	Winchester WAA12L	AS	17.9 gr	1250	8,700 PSI
	7/8 oz.	Remington STS	Rem 209	Winchester WAA12L	AS	18.4 gr	1250	8,400 PSI
	7/8 oz.	Remington STS	Rem 209	Winchester WAA12L	AS	19.5 gr	1300	8,900 PSI
	7/8 oz.	Remington STS	Rem 209	Winchester WAA12L	AS	20.9 gr	1350	9,800 PSI

VECTAN

SHOTSHELL RELOADING

AS	SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
	12 GA. 2 3/4, AS POWDER, LEAD SHOT, FOLD CRIMP							
	Ounce					Grains	FPS	PSI
	7/8 oz.	Winchester AA HS	Win 209	L078 Lightning	AS	17.4 gr	1200	8,400 PSI
	7/8 oz.	Winchester AA HS	Win 209	L078 Lightning	AS	18.2 gr	1250	8,900 PSI
	7/8 oz.	Winchester AA HS	Win 209	Remington TGT12	AS	16.8 gr	1200	8,300 PSI
	7/8 oz.	Winchester AA HS	Win 209	Remington TGT12	AS	17.2 gr	1225	8,700 PSI
	7/8 oz.	Winchester AA HS	Win 209	Remington TGT12	AS	17.9 gr	1250	8,900 PSI
	7/8 oz.	Winchester AA HS	Win 209	Remington TGT12	AS	19.0 gr	1300	9,300 PSI
	7/8 oz.	Winchester AA HS	Win 209	Remington TGT12	AS	20.0 gr	1350	10,200 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12L	AS	17.1 gr	1200	8,100 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12L	AS	18.0 gr	1250	8,700 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12L	AS	19.1 gr	1300	9,100 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12L	AS	20.1 gr	1350	9,700 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12SL	AS	15.9 gr	1100	7,400 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12SL	AS	17.4 gr	1200	8,200 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12SL	AS	18.4 gr	1250	8,600 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12SL	AS	19.0 gr	1300	9,100 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12SL	AS	20.3 gr	1350	9,700 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	AS	17.8 gr	1160	8,200 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	AS	19.1 gr	1235	9,500 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	AS	19.3 gr	1250	9,700 PSI
	1 oz.	Federal Gold Medal	Ched 209	Federal 12S0	AS	19.5 gr	1225	9,000 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	AS	20.3 gr	1300	10,500 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Fiocchi 27	AS	18.7 gr	1200	9,900 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Fiocchi 27	AS	20.3 gr	1300	11,000 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Remington TGT12	AS	18.1 gr	1200	9,400 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Remington TGT12	AS	19.1 gr	1250	10,000 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Remington TGT12	AS	20.2 gr	1300	10,800 PSI
	1 oz.	Fiocchi	Fio 616	Fiocchi 27	AS	19.0 gr	1200	8,700 PSI
	1 oz.	Fiocchi	Fio 616	Fiocchi 27	AS	20.0 gr	1250	9,300 PSI
	1 oz.	Remington STS	Rem 209	Remington RXP12	AS	17.7 gr	1200	9,700 PSI
	1 oz.	Remington STS	Rem 209	Remington RXP12	AS	18.0 gr	1220	10,000 PSI
	1 oz.	Remington STS	Rem 209	Remington RXP12	AS	19.0 gr	1250	10,600 PSI
	1 oz.	Remington STS	Rem 209	Remington RXP12	AS	20.1 gr	1285	11,000 PSI
	1 oz.	Remington STS	Rem 209	Remington TGT12	AS	19.2 gr	1225	9,500 PSI
	1 oz.	Winchester AA HS	Win 209	Remington RXP12	AS	18.0 gr	1200	9,400 PSI

VECTAN

SHOTSHELL RELOADING

AS	SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
	12 GA. 2 3/4, AS POWDER, LEAD SHOT, FOLD CRIMP							
	Ounce					Grains	FPS	PSI
	1 oz.	Winchester AA HS	Win 209	Remington RXP12	AS	19.5 gr	1250	9,800 PSI
	1 oz.	Winchester AA HS	Win 209	Remington TGT12	AS	18.1 gr	1200	9,500 PSI
	1 oz.	Winchester AA HS	Win 209	Remington TGT12	AS	20.5 gr	1300	10,900 PSI
	1 oz.	Winchester AA HS	Ched 209	Winchester WAA12SL	AS	18.0 gr	1225	9,600 PSI
	1 oz.	Winchester AA HS	Win 209	Winchester WAA12SL	AS	18.1 gr	1200	9,200 PSI
	1 oz.	Winchester AA HS	Win 209	Winchester WAA12SL	AS	19.2 gr	1250	10,100 PSI
	1 oz.	Winchester AA HS	Win 209	Winchester WAA12SL	AS	20.6 gr	1300	10,700 PSI
	1 oz.	Cheddite	Ched 209	Nobel Sport AQT2	AS	18.8 gr	1200	9,000 PSI
	1 oz.	Cheddite	Ched 209	Nobel Sport AQT2	AS	20.3 gr	1250	9,400 PSI
	1 oz.	Cheddite	Ched 209	Short Range Crusher	AS	18.0 gr	1150	8,200 PSI
	1 oz.	Cheddite	Ched 209	Spitfire	AS	19.6 gr	1200	8,400 PSI

206V	SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
	12 GA. 2 3/4, 206V POWDER, LEAD SHOT, FOLD CRIMP							
	Ounce					Grains	FPS	PSI
	1 oz.	Fiocchi	Fio 616	Fiocchi 27	206V	19.4 gr	1200	7,400 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Fiocchi 27	206V	19.0 gr	1200	9,000 PSI
	1 oz.	Remington STS	Ched 209	Remington TGT12	206V	18.4 gr	1200	8,900 PSI
	1 oz.	Remington STS	Rem 209	Remington TGT12	206V	18.5 gr	1200	8,500 PSI
	1 oz.	Winchester AA HS	Ched 209	Winchester WAA12SL	206V	19.4 gr	1225	9,000 PSI
	1 oz.	Winchester AA HS	Win 209	Winchester WAA12SL	206V	19.5 gr	1225	8,900 PSI
	1 oz.	Cheddite	Ched 209	Nobel Sport AQT2	206V	19.8 gr	1200	8,300 PSI
	1 oz.	Cheddite	Ched 209	Nobel Sport AQT2	206V	21.0 gr	1250	8,700 PSI
	1 oz.	Cheddite	Ched 209	Nobel Sport AQT2	206V	22.2 gr	1300	9,100 PSI
	1 oz.	Cheddite	Ched 209	Short Range Crusher	206V	20.0 gr	1175	7,200 PSI

GM 3	SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
	12 GA. 2 3/4, GM3 POWDER, LEAD SHOT, FOLD CRIMP							
	Ounce					Grains	FPS	PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12SL	GM3	18.4 gr	1200	7,700 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12SL	GM3	19.2 gr	1250	8,000 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12SL	GM3	20.4 gr	1300	8,500 PSI
	7/8 oz.	Winchester AA HS	Win 209	Winchester WAA12SL	GM3	21.6 gr	1350	9,100 PSI

VECTAN

SHOTSHELL RELOADING

GM3	SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
	12 GA. 2 3/4, GM3 POWDER, LEAD SHOT, FOLD CRIMP							
	Ounce					Grains	FPS	PSI
	1 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	GM3	19.6 gr	1200	8,600 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	GM3	20.4 gr	1250	9,200 PSI
	1 oz.	Federal Gold Medal	Ched 209	Federal 12S0	GM3	20.6 gr	1275	8,000 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	GM3	21.6 gr	1300	9,900 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Fiocchi 27	GM3	19.7 gr	1200	9,100 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Fiocchi 27	GM3	21.7 gr	1300	10,200 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Remington TGT12	GM3	19.7 gr	1200	8,500 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Remington TGT12	GM3	20.8 gr	1250	9,300 PSI
	1 oz.	Fiocchi	Fio 616	Fiocchi 27	GM3	20.0 gr	1200	7,000 PSI
	1 oz.	Remington STS	Rem 209	Claybuster 4100-12B	GM3	18.1 gr	1130	7,800 PSI
	1 oz.	Remington STS	Rem 209	Claybuster 4100-12B	GM3	19.4 gr	1200	8,800 PSI
	1 oz.	Remington STS	Rem 209	Claybuster 4100-12B	GM3	20.4 gr	1250	9,400 PSI
	1 oz.	Remington STS	Rem 209	Remington R12L	GM3	18.6 gr	1150	8,200 PSI
	1 oz.	Remington STS	Rem 209	Remington R12L	GM3	19.5 gr	1200	8,600 PSI
	1 oz.	Remington STS	Rem 209	Remington R12L	GM3	20.5 gr	1250	9,100 PSI
	1 oz.	Remington STS	Rem 209	Remington R12L	GM3	21.5 gr	1300	9,900 PSI
	1 oz.	Remington STS	Rem 209	Winchester WAA12SL	GM3	18.5 gr	1135	7,800 PSI
	1 oz.	Remington STS	Ched 209	Winchester WAA12SL	GM3	19.2 gr	1200	8,700 PSI
	1 oz.	Remington STS	Rem 209	Winchester WAA12SL	GM3	19.5 gr	1200	8,600 PSI
	1 oz.	Remington STS	Rem 209	Winchester WAA12SL	GM3	20.5 gr	1250	9,000 PSI
	1 oz.	Remington STS	Rem 209	Winchester WAA12SL	GM3	21.5 gr	1300	9,800 PSI
	1 oz.	Remington STS	Rem 209	Remington TGT12	GM3	20.3 gr	1250	9,600 PSI
	1 oz.	Winchester AA HS	Win 209	Claybuster 4100-12B	GM3	19.5 gr	1200	8,900 PSI
	1 oz.	Winchester AA HS	Win 209	Claybuster 4100-12B	GM3	20.5 gr	1250	9,300 PSI
	1 oz.	Winchester AA HS	Win 209	Claybuster 4100-12B	GM3	21.9 gr	1350	11,000 PSI
	1 oz.	Winchester AA HS	Win 209	Remington TGT12	GM3	18.4 gr	1175	8,700 PSI
	1 oz.	Winchester AA HS	Win 209	Remington TGT12	GM3	18.7 gr	1200	9,200 PSI
	1 oz.	Winchester AA HS	Win 209	Remington TGT12	GM3	19.4 gr	1250	9,900 PSI
	1 oz.	Winchester AA HS	Win 209	Winchester WAA12	GM3	18.0 gr	1150	8,500 PSI
	1 oz.	Winchester AA HS	Win 209	Winchester WAA12	GM3	19.2 gr	1200	9,200 PSI
	1 oz.	Winchester AA HS	Win 209	Winchester WAA12	GM3	20.2 gr	1250	9,400 PSI
	1 oz.	Winchester AA HS	Win 209	Winchester WAA12	GM3	21.8 gr	1300	10,300 PSI
	1 1/8 oz.	Cheddite	Ched 209	Federal 12S0	GM3	20.9 gr	1105	7,400 PSI
	1 1/8 oz.	Cheddite	Ched 209	Federal 12S0	GM3	22.0 gr	1200	9,000 PSI

VECTAN

SHOTSHELL RELOADING

GM 3	SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
	12 GA. 2 3/4, GM3 POWDER, LEAD SHOT, FOLD CRIMP							
	Ounce					Grains	FPS	PSI
	1 1/8 oz.	Cheddite	Ched 209	Federal 12S0	GM3	23.1 gr	1250	9,500 PSI
	1 1/8 oz.	Cheddite	Ched 209	Federal 12S0	GM3	24.0 gr	1300	10,300 PSI
	1 1/8 oz.	Federal Field	Fed 209A	Federal 12S0	GM3	20.0 gr	1080	7,000 PSI
	1 1/8 oz.	Fed. Gold Medal	Fed 209A	Competition Special	GM3	20.5 gr	1200	10,200 PSI
	1 1/8 oz.	Fed. Gold Medal	Fed 209A	Competition Special	GM3	20.6 gr	1215	10,300 PSI
	1 1/8 oz.	Fed. Gold Medal	Fed 209A	Federal 12S3	GM3	20.5 gr	1185	9,400 PSI
	1 1/8 oz.	Fed. Gold Medal	Fed 209A	Federal 12S3	GM3	21.0 gr	1220	10,300 PSI
	1 1/8 oz.	Fed. Gold Medal	Fed 209A	Helix Cushion Driver 24	GM3	20.5 gr	1225	10,700 PSI
	1 1/8 oz.	Remington STS	Rem 209	Claybuster 4118-12	GM3	20.5 gr	1200	9,500 PSI
	1 1/8 oz.	Remington STS	Ched 209	Federal 12S0	GM3	19.9 gr	1200	10,100 PSI
	1 1/8 oz.	Remington STS	Rem 209	Remington FIG8	GM3	20.1 gr	1200	9,800 PSI
	1 1/8 oz.	Remington STS	Rem 209	Winchester WAA12	GM3	20.3 gr	1200	9,900 PSI
	1 1/8 oz.	Remington STS	Rem 209	Winchester WAA12	GM3	20.5 gr	1220	10,100 PSI
	1 1/8 oz.	Remington STS	Rem 209	Winchester WAA12	GM3	21.1 gr	1250	10,700 PSI
	1 1/8 oz.	Remington STS	Rem 209	Winchester WAA12	GM3	21.4 gr	1270	11,000 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Winchester WAA12	GM3	17.0 gr	1085	8,900 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Winchester WAA12	GM3	20.0 gr	1200	10,400 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Winchester WAA12	GM3	21.0 gr	1250	11,000 PSI
	1 1/8 oz.	Winchester AA HS	Ched 209	Claybuster 4118-12	GM3	19.7 gr	1225	10,600 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Claybuster 4118-12	GM3	19.9 gr	1200	9,600 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Claybuster 4118-12	GM3	21.0 gr	1235	10,200 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Helix Cushion Driver 18	GM3	19.8 gr	1200	10,400 PSI

D20	SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
	12 GA. 2 3/4, D20 POWDER, LEAD SHOT, FOLD CRIMP							
	Ounce					Grains	FPS	PSI
	1 oz.	Federal Field	Fed 209A	Federal 12S0	D20	21.0 gr	1185	7,800 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	D20	19.2 gr	1185	8,400 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	D20	19.4 gr	1200	8,500 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	D20	21.2 gr	1250	9,200 PSI
	1 oz.	Federal Gold Medal	Ched 209	Federal 12S0	D20	21.4 gr	1250	8,500 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	D20	22.1 gr	1300	10,000 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	D20	23.0 gr	1340	10,500 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	D20	23.2 gr	1350	10,600 PSI

VECTAN

SHOTSHELL RELOADING

D20	SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
	12 GA. 2 3/4, D20 POWDER, LEAD SHOT, FOLD CRIMP							
	Ounce					Grains	FPS	PSI
	1 oz.	Federal Gold Medal	Fed 209A	Remington TGT12	D20	19.6 gr	1200	8,600 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Remington TGT12	D20	19.8 gr	1220	8,700 PSI
	1 oz.	Federal Gold Medal	Fed 209A	Remington TGT12	D20	21.4 gr	1250	9,100 PSI
	1 oz.	Fiocchi	Fio 616	Fiocchi 27	D20	21.7 gr	1250	8,300 PSI
	1 oz.	Remington STS	Ched 209	Remington FIG8	D20	22.3 gr	1350	10,800 PSI
	1 oz.	Remington STS	Rem 209	Remington FIG8	D20	22.5 gr	1300	9,300 PSI
	1 oz.	Remington STS	Rem 209	Remington R12L	D20	20.0 gr	1175	8,200 PSI
	1 oz.	Remington STS	Rem 209	Remington R12L	D20	20.3 gr	1200	8,500 PSI
	1 oz.	Remington STS	Rem 209	Remington R12L	D20	21.5 gr	1250	9,000 PSI
	1 oz.	Remington STS	Rem 209	Remington R12L	D20	22.0 gr	1280	9,500 PSI
	1 oz.	Remington STS	Rem 209	Remington R12L	D20	22.4 gr	1300	9,800 PSI
	1 oz.	Remington STS	Rem 209	Remington TGT12	D20	20.5 gr	1215	8,400 PSI
	1 oz.	Remington STS	Rem 209	Remington TGT12	D20	21.4 gr	1250	8,800 PSI
	1 oz.	Winchester AA HS	Win 209	Remington FIG8	D20	19.6 gr	1200	8,500 PSI
	1 oz.	Winchester AA HS	Win 209	Remington FIG8	D20	20.0 gr	1225	8,800 PSI
	1 oz.	Winchester AA HS	Win 209	Remington FIG8	D20	20.4 gr	1250	9,200 PSI
	1 oz.	Winchester AA HS	Win 209	Remington FIG8	D20	21.3 gr	1300	10,000 PSI
	1 oz.	Winchester AA HS	Ched 209	Remington RXP12	D20	19.5 gr	1225	9,000 PSI
	1 oz.	Winchester AA HS	Win 209	Remington RXP12	D20	19.7 gr	1200	8,500 PSI
	1 oz.	Winchester AA HS	Win 209	Remington RXP12	D20	20.1 gr	1220	8,800 PSI
	1 oz.	Winchester AA HS	Win 209	Remington RXP12	D20	20.7 gr	1250	9,100 PSI
	1 oz.	Winchester AA HS	Win 209	Remington RXP12	D20	21.5 gr	1300	9,900 PSI
	1 oz.	Winchester AA HS	Win 209	Remington TGT12	D20	19.5 gr	1200	8,500 PSI
	1 oz.	Winchester AA HS	Win 209	Remington TGT12	D20	20.0 gr	1225	8,900 PSI
	1 oz.	Winchester AA HS	Win 209	Remington TGT12	D20	20.5 gr	1250	9,200 PSI
	1 oz.	Winchester AA HS	Win 209	Remington TGT12	D20	21.3 gr	1275	9,700 PSI
	1 1/8 oz.	Cheddite	Ched 209	Remington TGT12	D20	22.1 gr	1225	9,000 PSI
	1 1/8 oz.	Cheddite	Ched 209	Remington TGT12	D20	22.8 gr	1250	9,300 PSI
	1 1/8 oz.	Cheddite	Ched 209	Remington TGT12	D20	23.8 gr	1300	10,200 PSI
	1 1/8 oz.	Cheddite	Ched 209	Federal 12S0	D20	23.0 gr	1250	8,200 PSI
	1 1/8 oz.	Cheddite	Ched 209	Federal 12S0	D20	24.1 gr	1300	9,800 PSI
	1 1/8 oz.	Cheddite	Ched 209	Helix Cushion Driver 24	D20	20.0 gr	1100	7,500 PSI
	1 1/8 oz.	Cheddite	Ched 209	Short Range Crusher	D20	21.8 gr	1200	9,000 PSI
	1 1/8 oz.	Cheddite	Ched 209	Short Range Crusher	D20	22.0 gr	1215	9,100 PSI

VECTAN

SHOTSHELL RELOADING

D20	SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
	12 GA. 2 3/4, D20 POWDER, LEAD SHOT, FOLD CRIMP							
	Ounce					Grains	FPS	PSI
	1 1/8 oz.	Cheddite	Ched 209	Short Range Crusher	D20	22.8 gr	1250	9,500 PSI
	1 1/8 oz.	Cheddite	Ched 209	Short Range Crusher	D20	23.4 gr	1275	10,200 PSI
	1 1/8 oz.	Cheddite	Ched 209	Z21 Trap Commander	D20	20.0 gr	1125	7,900 PSI
	1 1/8 oz.	Cheddite	Ched 209	Z21 Trap Commander	D20	21.9 gr	1200	8,800 PSI
	1 1/8 oz.	Cheddite	Ched 209	Z21 Trap Commander	D20	22.7 gr	1250	9,600 PSI
	1 1/8 oz.	Cheddite	Ched 209	Z21 Trap Commander	D20	23.5 gr	1300	10,500 PSI
	1 1/8 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	D20	20.0 gr	1160	9,200 PSI
	1 1/8 oz.	Federal Gold Medal	Fed 209A	Federal 12S3	D20	20.8 gr	1200	9,700 PSI
	1 1/8 oz.	Federal Gold Medal	Fed 209A	Federal 12S3	D20	22.0 gr	1250	10,500 PSI
	1 1/8 oz.	Federal Gold Medal	Fed 209A	Fiocchi 24	D20	20.7 gr	1300	10,800 PSI
	1 1/8 oz.	Federal Gold Medal	Fed 209A	Remington FIG8	D20	22.4 gr	1250	10,200 PSI
	1 1/8 oz.	Federal Gold Medal	Fed 209A	Remington TGT12	D20	20.8 gr	1200	9,200 PSI
	1 1/8 oz.	Federal Gold Medal	Fed 209A	Winchester WAA12	D20	21.0 gr	1200	9,300 PSI
	1 1/8 oz.	Federal Gold Medal	Fed 209A	Winchester WAA12	D20	22.5 gr	1275	10,600 PSI
	1 1/8 oz.	Fiocchi	Fio 616	Fiocchi 24	D20	21.7 gr	1200	9,200 PSI
	1 1/8 oz.	Fiocchi	Fio 616	Fiocchi 24	D20	23.1 gr	1350	10,200 PSI
	1 1/8 oz.	Remington STS	Rem 209	Remington R12L	D20	18.0 gr	1100	8,600 PSI
	1 1/8 oz.	Remington STS	Rem 209	Remington R12L	D20	20.4 gr	1200	9,400 PSI
	1 1/8 oz.	Remington STS	Rem 209	Remington R12L	D20	22.3 gr	1250	10,100 PSI
	1 1/8 oz.	Remington STS	Rem 209	Remington RXP12	D20	20.5 gr	1200	9,700 PSI
	1 1/8 oz.	Remington STS	Rem 209	Winchester WAA12	D20	20.6 gr	1200	9,500 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Federal 12S3	D20	19.6 gr	1200	10,100 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Winchester WAA12	D20	20.2 gr	1200	9,700 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Winchester WAA12	D20	21.0 gr	1235	10,500 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Winchester WAA12	D20	21.2 gr	1250	10,800 PSI

A1	SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
	12 GA. 2 3/4, A1 POWDER, LEAD SHOT, FOLD CRIMP							
	Ounce					Grains	FPS	PSI
	1 1/8 oz.	Cheddite	Ched 209	Competition Special	A1	20.0 gr	1035	7,200 PSI
	1 1/8 oz.	Cheddite	Ched 209	Competition Special	A1	21.0 gr	1075	7,500 PSI
	1 1/8 oz.	Cheddite	Ched 209	Competition Special	A1	23.0 gr	1175	8,100 PSI
	1 1/8 oz.	Cheddite	Ched 209	Competition Special	A1	23.5 gr	1235	9,100 PSI
	1 1/8 oz.	Cheddite	Ched 209	Federal 12S3	A1	22.5 gr	1185	8,400 PSI

VECTAN

SHOTSHELL RELOADING

A1	SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
	12 GA. 2 3/4, A1 POWDER, LEAD SHOT, FOLD CRIMP							
	Ounce					Grains	FPS	PSI
	1 1/8 oz.	Cheddite	Ched 209	Federal 12S3	A1	22.8 gr	1200	8,500 PSI
	1 1/8 oz.	Cheddite	Ched 209	Federal 12S3	A1	24.1 gr	1250	9,100 PSI
	1 1/8 oz.	Cheddite	Ched 209	Federal 12S3	A1	25.2 gr	1300	10,100 PSI
	1 1/8 oz.	Cheddite	Ched 209	Federal 12S3	A1	25.4 gr	1320	10,300 PSI
	1 1/8 oz.	Cheddite	Ched 209	Remington FIG8	A1	23.0 gr	1200	8,400 PSI
	1 1/8 oz.	Cheddite	Ched 209	Helix Cushion Driver 24	A1	24.2 gr	1250	9,000 PSI
	1 1/8 oz.	Cheddite	Ched 209	Remington TGT12	A1	22.8 gr	1150	7,800 PSI
	1 1/8 oz.	Cheddite	Ched 209	Remington TGT12	A1	23.5 gr	1200	8,300 PSI
	1 1/8 oz.	Federal Field	Fed 209A	Federal 12S3	A1	20.0 gr	1155	9,100 PSI
	1 1/8 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	A1	21.5 gr	1180	9,100 PSI
	1 1/8 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	A1	21.7 gr	1200	9,200 PSI
	1 1/8 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	A1	22.0 gr	1220	9,400 PSI
	1 1/8 oz.	Federal Gold Medal	Fed 209A	Federal 12S3	A1	21.7 gr	1200	9,000 PSI
	1 1/8 oz.	Federal Gold Medal	Fed 209A	Fiocchi 24	A1	21.8 gr	1250	10,400 PSI
	1 1/8 oz.	Federal Gold Medal	Fed 209A	Fiocchi 24	A1	22.5 gr	1350	10,900 PSI
	1 1/8 oz.	Federal Gold Medal	Fed 209A	Remington RXP12	A1	22.6 gr	1250	10,100 PSI
	1 1/8 oz.	Federal Gold Medal	Fed 209A	Remington TGT12	A1	21.8 gr	1200	8,900 PSI
	1 1/8 oz.	Federal Gold Medal	Fed 209A	Remington TGT12	A1	23.5 gr	1300	10,800 PSI
	1 1/8 oz.	Fiocchi	Fio 616	Fiocchi 24	A1	22.7 gr	1200	8,700 PSI
	1 1/8 oz.	Fiocchi	Fio 616	Fiocchi 24	A1	23.5 gr	1250	9,200 PSI
	1 1/8 oz.	Remington STS	Rem 209	Claybuster CB4118-12	A1	22.5 gr	1250	9,900 PSI
	1 1/8 oz.	Remington STS	Rem 209	Remington R12L	A1	21.0 gr	1165	8,900 PSI
	1 1/8 oz.	Remington STS	Rem 209	Remington R12L	A1	21.7 gr	1200	9,500 PSI
	1 1/8 oz.	Remington STS	Rem 209	Remington R12L	A1	22.0 gr	1220	9,700 PSI
	1 1/8 oz.	Remington STS	Rem 209	Remington R12L	A1	22.7 gr	1250	9,900 PSI
	1 1/8 oz.	Remington STS	Rem 209	Remington RXP12	A1	18.0 gr	1055	8,200 PSI
	1 1/8 oz.	Remington STS	Rem 209	Remington RXP12	A1	20.5 gr	1160	9,000 PSI
	1 1/8 oz.	Remington STS	Rem 209	Remington RXP12	A1	21.3 gr	1200	9,500 PSI
	1 1/8 oz.	Federal Gold Medal	Ched 209	Federal 12S0	A1	21.9 gr	1200	9,000 PSI
	1 1/8 oz.	Remington STS	Ched 209	Remington RXP12	A1	21.1 gr	1200	9,500 PSI
	1 1/8 oz.	Remington STS	Rem 209	Remington RXP12	A1	22.2 gr	1250	10,400 PSI
	1 1/8 oz.	Remington STS	Rem 209	Winchester WAA12	A1	21.5 gr	1200	9,300 PSI
	1 1/8 oz.	Remington STS	Rem 209	Winchester WAA12	A1	22.5 gr	1250	10,400 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Federal 12S3	A1	21.0 gr	1200	9,700 PSI

VECTAN

SHOTSHELL RELOADING

A1	SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
	12 GA. 2 3/4, A1 POWDER, LEAD SHOT, FOLD CRIMP							
	Ounce					Grains	FPS	PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Federal 12S3	A1	22.0 gr	1250	10,500 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Remington FIG8	A1	21.2 gr	1200	9,400 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Remington RXP12	A1	22.2 gr	1225	9,900 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Winchester WAA12	A1	21.1 gr	1200	9,500 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Winchester WAA12	A1	22.5 gr	1250	10,200 PSI

A0	SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
	12 GA. 2 3/4, A0 POWDER, LEAD SHOT, FOLD CRIMP							
	Ounce					Grains	FPS	PSI
	1 1/8 oz.	Federal Gold Medal	Fed 209A	Federal 12S0	A0	24.0 gr	1200	8,800 PSI
	1 1/8 oz.	Federal Gold Medal	Ched 209	Federal 12S0	A0	24.2 gr	1200	7,800 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Winchester WAA12	A0	23.5 gr	1175	8,500 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Winchester WAA12	A0	23.7 gr	1200	8,700 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Winchester WAA12	A0	25.4 gr	1250	9,200 PSI
	1 1/8 oz.	Winchester AA HS	Win 209	Winchester WAA12	A0	26.0 gr	1285	9,600 PSI

16 GAUGE

SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
16 GA. 2 3/4, 7/8 oz. LEAD SHOT, FOLD CRIMP							
Ounce					Grains	FPS	PSI
7/8 oz.	Cheddite	Ched 209	SG16 Sporting Sixteen	AS	20.0 gr	1350	10,600 PSI
7/8 oz.	Cheddite	Ched 209	WAA20 + 1/8 20ga Felt Wad	AS	18.0 gr	1300	10,400 PSI
7/8 oz.	Cheddite	Ched 209	SG16 Sporting Sixteen	A1	18.0 gr	1150	7,500 PSI
7/8 oz.	Cheddite	Ched 209	SG16 Sporting Sixteen	A0	22.0 gr	1200	7,500 PSI
7/8 oz.	Federal FB	Fed 209A	SG16 Sporting Sixteen	A0	22.0 gr	1300	8,800 PSI
7/8 oz.	Remington SP	Rem 209	SG16 Sporting Sixteen	A0	22.0 gr	1350	10,000 PSI

SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
16 GA. 2 3/4, 1 oz. LEAD SHOT, FOLD CRIMP							
Ounce					Grains	FPS	PSI
1 oz.	Federal FB	Fed 209A	Winchester WAA16	GM3	18.1 gr	1200	10,400 PSI
1 oz.	Cheddite	Ched 209	SG16 Sporting Sixteen	D20	18.0 gr	1200	9,000 PSI
1 oz.	Cheddite	Ched 209	SG16 Sporting Sixteen	D20	19.0 gr	1250	10,600 PSI
1 oz.	Federal FB	Fed 209A	Z16 Field Commander	D20	18.0 gr	1200	10,800 PSI

VECTAN

SHOTSHELL RELOADING

16 GAUGE

SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
16 GA. 2 3/4, 1 oz. LEAD SHOT, FOLD CRIMP							
Ounce					Grains	FPS	PSI
1 oz.	Cheddite	Ched 209	Winchester WAA16	A0	19.8 gr	1200	8,900 PSI
1 oz.	Cheddite	Ched 209	Winchester WAA16	A0	20.0 gr	1215	9,100 PSI
1 oz.	Cheddite	Ched 209	Winchester WAA16	A0	21.0 gr	1265	9,500 PSI
1 oz.	Cheddite	Ched 209	Winchester WAA16	A0	22.0 gr	1300	9,800 PSI
1 oz.	Cheddite	Ched 209	Z16 Field Commander	A0	21.1 gr	1200	9,000 PSI
1 oz.	Cheddite	Ched 209	Z16 Field Commander	A0	22.0 gr	1250	9,300 PSI
1 oz.	Cheddite	Ched 209	Z16 Field Commander	A0	26.0 gr	1400	10,400 PSI
1 oz.	Federal FB	Fed 209A	SG16 Sporting Sixteen	A0	20.2 gr	1200	9,200 PSI
1 oz.	Federal FB	Fed 209A	Winchester WAA16	A0	19.0 gr	1200	9,900 PSI
1 oz.	Federal FB	Fed 209A	Winchester WAA16	A0	19.9 gr	1250	10,500 PSI
1 oz.	Remington SP	Rem 209	Winchester WAA16	A0	19.8 gr	1200	9,400 PSI
1 oz.	Remington SP	Rem 209	Winchester WAA16	A0	20.1 gr	1225	9,600 PSI
1 oz.	Remington SP	Rem 209	Z16 Field Commander	A0	20.0 gr	1200	9,200 PSI
1 oz.	Remington SP	Rem 209	Z16 Field Commander	A0	21.1 gr	1250	9,500 PSI
1 oz.	Remington SP	Rem 209	Z16 Field Commander	A0	22.0 gr	1285	9,900 PSI

20 GAUGE

SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
20 GA. 2 3/4, 3/4 oz. LEAD SHOT, FOLD CRIMP							
Ounce					Grains	FPS	PSI
3/4 oz.	Federal FB	Fed 209A	Claybuster CB1075-20	GM3	15.0 gr	1250	10,700 PSI
3/4 oz.	Win AA-HS	Win 209	Winchester WAA20	GM3	14.0 gr	1225	10,600 PSI
3/4 oz.	Cheddite	Ched 209	Claybuster CB1075-20	A1	15.2 gr	1150	7,900 PSI
3/4 oz.	Cheddite	Ched 209	SG20L Sporting 20 Long	A1	18.1 gr	1350	10,000 PSI
3/4 oz.	Federal FB	Fed 209A	SG20L Sporting 20 Long	A1	14.0 gr	1125	8,300 PSI
3/4 oz.	Federal FB	Fed 209A	SG20L Sporting 20 Long	A1	17.2 gr	1350	11,100 PSI
3/4 oz.	Remington	Rem 209	Claybuster CB1075-20	A1	14.0 gr	1200	10,100 PSI
3/4 oz.	Remington	Rem 209	Winchester WAA20	A1	13.8 gr	1200	9,900 PSI
3/4 oz.	Remington	Rem 209	Winchester WAA20	A1	14.9 gr	1250	10,900 PSI
3/4 oz.	Remington	Rem 209	Winchester WAA20	A1	15.8 gr	1300	11,500 PSI
3/4 oz.	Win AA-HS	Win 209	Claybuster CB1075-20	A1	13.5 gr	1175	9,700 PSI
3/4 oz.	Win AA-HS	Win 209	Winchester WAA20	A1	13.5 gr	1150	9,000 PSI

VECTAN

SHOTSHELL RELOADING

20 GAUGE

SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
20 GA. 2 3/4, 3/4 oz. LEAD SHOT, FOLD CRIMP							
Ounce					Grains	FPS	PSI
3/4 oz.	Win AA-HS	Win 209	Winchester WAA20	A1	14.0 gr	1175	9,300 PSI
3/4 oz.	Win AA-HS	Win 209	Winchester WAA20	A1	14.5 gr	1200	9,500 PSI
3/4 oz.	Cheddite	Ched 209	Claybuster CB1075-20	A0	18.2 gr	1250	8,400 PSI
3/4 oz.	Cheddite	Ched 209	Claybuster CB1075-20	A0	19.1 gr	1300	9,100 PSI
3/4 oz.	Cheddite	Ched 209	Claybuster CB1075-20	A0	19.9 gr	1350	9,700 PSI
3/4 oz.	Cheddite	Ched 209	Claybuster CB1075-20	A0	21.0 gr	1400	10,100 PSI
3/4 oz.	Cheddite	Ched 209	Claybuster CB1075-20	A0	21.9 gr	1450	10,500 PSI
3/4 oz.	Cheddite	Ched 209	SG20L Sporting 20 Long	A0	17.0 gr	1200	8,000 PSI
3/4 oz.	Cheddite	Ched 209	SG20L Sporting 20 Long	A0	18.0 gr	1250	8,600 PSI
3/4 oz.	Remington	Rem 209	Claybuster CB1075-20	A0	16.0 gr	1200	9,400 PSI
3/4 oz.	Remington	Rem 209	Claybuster CB1075-20	A0	16.7 gr	1250	9,600 PSI
3/4 oz.	Remington	Rem 209	Claybuster CB1075-20	A0	17.0 gr	1275	9,800 PSI
3/4 oz.	Remington	Rem 209	Claybuster CB1075-20	A0	17.9 gr	1325	10,500 PSI
3/4 oz.	Remington	Rem 209	Claybuster CB1075-20	A0	19.0 gr	1385	11,100 PSI
3/4 oz.	Remington	Rem 209	Winchester WAA20	A0	15.6 gr	1200	9,000 PSI
3/4 oz.	Remington	Rem 209	Winchester WAA20	A0	16.5 gr	1250	9,700 PSI
3/4 oz.	Remington	Rem 209	Winchester WAA20	A0	17.2 gr	1300	10,000 PSI
3/4 oz.	Win AA-HS	Win 209	Claybuster CB1075-20	A0	16.0 gr	1200	9,000 PSI
3/4 oz.	Win AA-HS	Win 209	Claybuster CB1075-20	A0	16.9 gr	1250	9,600 PSI
3/4 oz.	Win AA-HS	Win 209	Claybuster CB1075-20	A0	18.0 gr	1325	10,600 PSI

SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
20 GA. 2 3/4, 7/8 oz. LEAD SHOT, FOLD CRIMP							
Ounce					Grains	FPS	PSI
7/8 oz.	Cheddite	Ched 209	SG20M Sporting 20 Mid	D20	15.7 gr	1200	10,500 PSI
7/8 oz.	Cheddite	Ched 209	SG20M Sporting 20 Mid	D20	16.9 gr	1250	10,900 PSI
7/8 oz.	Cheddite	Ched 209	Federal 20S1	A1	15.8 gr	1200	10,900 PSI
7/8 oz.	Cheddite	Ched 209	SG20M Sporting 20 Mid	A1	17.3 gr	1250	10,700 PSI
7/8 oz.	Win AA-HS	Win 209	Claybuster CB1078-20	A1	13.6 gr	1150	10,800 PSI
7/8 oz.	Cheddite	Ched 209	Federal 20S1	A0	17.0 gr	1200	9,500 PSI
7/8 oz.	Cheddite	Ched 209	Federal 20S1	A0	17.9 gr	1235	9,800 PSI
7/8 oz.	Cheddite	Ched 209	Federal 20S1	A0	19.0 gr	1285	10,800 PSI
7/8 oz.	Cheddite	Ched 209	Federal 20S1	A0	20.0 gr	1350	11,500 PSI

VECTAN

SHOTSHELL RELOADING

20 GAUGE

SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
20 GA. 2 3/4, 7/8 oz. LEAD SHOT, FOLD CRIMP							
Ounce					Grains	FPS	PSI
7/8 oz.	Cheddite	Ched 209	TC20 Commander	A0	18.0 gr	1175	8,500 PSI
7/8 oz.	Cheddite	Ched 209	TC20 Commander	A0	19.3 gr	1250	9,100 PSI
7/8 oz.	Cheddite	Ched 209	TC20 Commander	A0	20.0 gr	1275	9,300 PSI
7/8 oz.	Cheddite	Ched 209	TC20 Commander	A0	20.4 gr	1300	9,800 PSI
7/8 oz.	Cheddite	Ched 209	Winchester WAA20	A0	18.0 gr	1215	9,200 PSI
7/8 oz.	Cheddite	Ched 209	Winchester WAA20	A0	19.0 gr	1285	9,900 PSI
7/8 oz.	Cheddite	Ched 209	Winchester WAA20	A0	20.0 gr	1325	10,400 PSI
7/8 oz.	Federal FB	Fed 209A	Federal 20S1	A0	16.0 gr	1200	10,800 PSI
7/8 oz.	Federal FB	Fed 209A	Federal 20S1	A0	17.1 gr	1250	11,000 PSI
7/8 oz.	Remington	Rem 209	Winchester WAA20	A0	15.1 gr	1150	9,600 PSI
7/8 oz.	Remington	Rem 209	Winchester WAA20	A0	16.0 gr	1200	10,000 PSI
7/8 oz.	Remington	Rem 209	Winchester WAA20	A0	16.8 gr	1225	10,500 PSI
7/8 oz.	Remington	Rem 209	Winchester WAA20	A0	17.4 gr	1250	10,800 PSI
7/8 oz.	Rio	Rio 209	TC20 Commander	A0	22.0 gr	1350	9,900 PSI
7/8 oz.	Win AA-HS	Win 209	Winchester WAA20	A0	14.0 gr	1135	10,300 PSI
7/8 oz.	Win AA-HS	Win 209	Winchester WAA20	A0	15.8 gr	1200	10,700 PSI

SHOT	HULL	PRIMER	WAD	POWDER	CHARGE / VELOCITY / PRESSURE		
20 GA. 2 3/4, 1 oz. LEAD SHOT, FOLD CRIMP							
Ounce					Grains	FPS	PSI
1 oz.	Cheddite	Ched 209	SG20S Sporting 20 Short	A1	15.0 gr	1125	11,000 PSI
1 oz.	Federal FB	Fed 209A	SG20S Sporting 20 Short	A0	14.0 gr	1050	9,600 PSI
1 oz.	Cheddite	Ched 209	SG20M Sporting 20 Mid	A0	15.0 gr	1000	8,300 PSI

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WARNING: POWDER BUSHINGS YIELD VOLUMETRIC MEASUREMENTS ONLY AND MAY NOT CORRESPOND TO THE DESIRED POWDER WEIGHT. ALL BUSHING CHARTS ARE CREATED WITH ONE PRODUCTION LOT OF POWDER AT ONE POINT IN TIME. THEREFORE, IT IS NECESSARY THAT ALL SHOT AND POWDER CHARGES BE WEIGHED AND VERIFIED USING A PROPERLY FUNCTIONING LOADING SCALE. EACH INDIVIDUAL BUSHING AND LOADING PRESS WILL SHOW SLIGHT VARIATIONS IN POWDER DROPS. CONDITIONS SUCH AS HUMIDITY, VIBRATION AND STATIC WILL HAVE AN EFFECT ON THE ACCURACY TO POWDER DROPS AND CAN CAUSE VARIATION. CHARGES MAY VARY SLIGHTLY DUE TO OPERATORS TECHNIQUE AND/OR OTHER VARIABLES.

Troubleshooting Irregular Powder Drops:

When starting each loading session, inserting a new bushing, or refilling the powder cylinder. Always cycle the first 3-5 powder droppings. These first charges will be inaccurate as the propellant requires time to settle in the press.

- Verify that your press is properly aligned. Ensure that the press is assembled correctly and allows the bushing to line up directly over the drop tube.
- Check your press for missing or damaged O-rings.
- Regularly clean your press as propellants will inherently accumulate in the moving parts of the tooling head and underneath bushings.
- Utilize powder baffles to remove additional weight and backed-up propellant from the bushing/charge bar.
- Verify that you have the correct bushing # installed in the press.
- Propellant containers are subject to large amounts of vibration during shipping. It is common that the flakes/granules will separate themselves by size within the container. With the smaller particles having fallen to the bottom of the container, the hand-loader will see large amounts of variations throughout the loading session. To rectify this issue, it may be necessary to remix the powder before loading it into the press. Ensure the propellant bottle is tightly sealed, lay it on its side on a flat, non-static surface, and gently roll the bottle back and forth.
- The individual hand-loader's reloading practices are often at fault for many powder drop variance issues. The faster the press is cycled (rapidly moving the charging levers back and forth), the greater the opportunity for drop variance. Speed loading is not conducive to building quality, high-performance loads. Slow down and allow time for the propellant to completely fill the bushing.
- Propellants will vary from lot to lot. It is not uncommon to see slight fluctuations each time you purchase a new container of powder.

Verifying Powder Drops

- Utilize a powder pan to safely obtain a powder charge from the press.
- Carefully weigh the charge on an appropriate bench scale.
- Record the drop charge in Grains and repeat 10 times.
- Average the 10 drop weights to determine the powder charge.

MEC BUSHING CHART - VECTAN POWDERS - 12ga Target

Bushing #	A24	Prima SV	Prima V	AS	206V	GM3	D20	A1	A0
24									
25		16.4	16.5						
26		17.2	17.3	14.5					
27		18.1	18.2	15		18.3	16.2		
28		18.5	18.6	15.7	16	19.1	16.8		
29		19.1	19.1	16	16.5	19.8	17.3	18.6	
30		19.9	20.1	16.6	17.1	20.8	18	19.4	
31	15.6	20.7	20.8	17.1	17.5	21.3	18.6	19.9	
32	16.1	21.3	21.3	18	18.4	22.1	19.3	20.7	
33	16.8	22.3	22.4	18.7	19.2	22.8	20.1	21.5	21.8
34	17.4			19.4	19.7	24.1	20.8	22.4	23
35	17.7			19.8	20	24.3	21.2	22.8	23.4
36	18.3			20.4			21.9	23.6	24.2
37	19.2			21.2			22.8	24.6	25
38							23.8		26.2
38A							24.4		26.8

PONSNESS-WARREN BUSHING CHART - VECTAN POWDERS - 12ga Target

Bushing #	A24	Prima SV	Prima V	AS	206V	GM3	D20	A1	A0
F			16.3						
F1		16.5	16.6						
F2		16.9	17			17.4			
G		17.8	18	14.9		18.6	16.2		
G1		18.2	18.4	15.2		19	16.6		
H		19.6	19.7	16.3	16.6	20.5	17.6	19	
I	15.3	20.2	20.4	17	17.5	21.2	18.4	19.8	
J	15.7	20.8	21	17.4	17.9	21.6	18.8	20.2	
J1	16.1	21.2	21.4	17.9	18.4	22.2	19.3	20.7	
K	16.4	21.6	21.9	18.2	18.7	22.6	19.6	21.1	21.6
L	17.3			19.2	19.6	23.8	20.8	22	22.8
M	18			19.9	20.5	24.9	21.6	23.3	23.8
N	19.3			21.4			23.1	24.8	25.4
O				21.6			23.4	25.1	25.7
P							23.8	25.5	26.1
Q							24.6	26.4	27

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