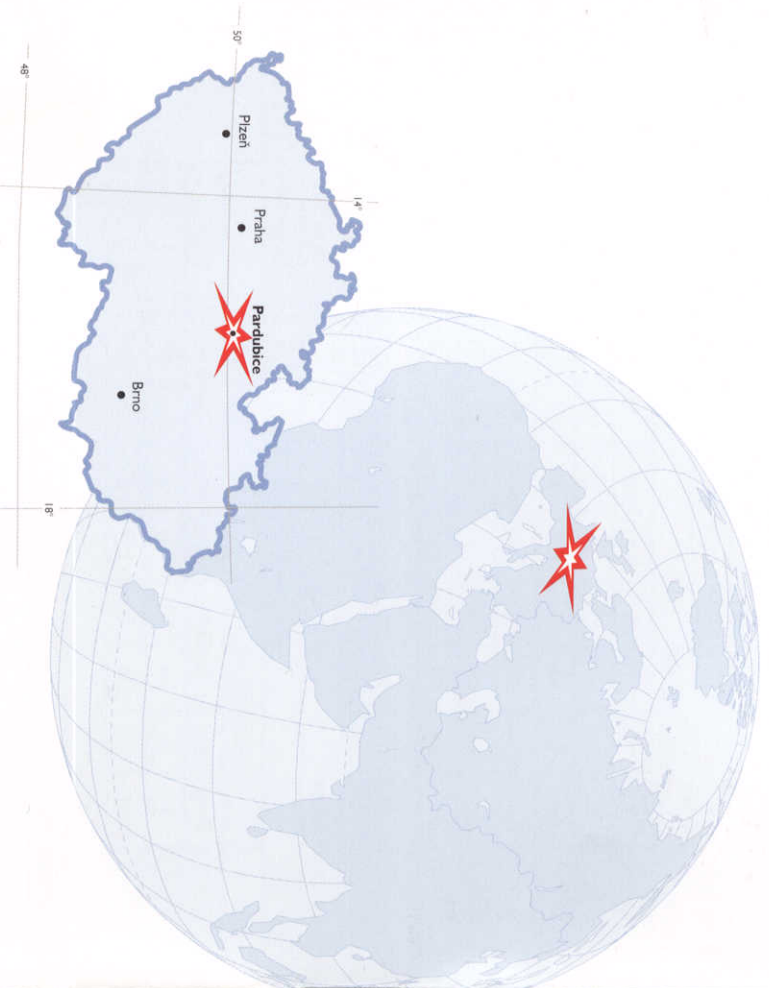


VEX propellants



EXPLOSION a.s.

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Reloading guide

Powder Information

Explosia powders are manufactured in two basic types — as single-base nitrocellulose powder or double-base powder with certain percentage of nitroglycerin. Depending on a technology our powders are manufactured in a form of cut sheet flakes, extruded tubular particles or round balls. Many our powder grades have a chemical coating on the surfaces of the granules to control the burning rate. Powder S020-02 is single-base tubular powder recommended nearly for all pistol/revolver loads.

Safety and health precautions

1. Do not smoke where powder is stored and when reloading.
 2. Keep powder away from electrical machinery that could produce sparks and keep it away from other combustible materials or flammable liquids.
 3. Store in a cool, dark and dry place. Storage cabinets should be self-venting, allowing combustible gases to escape, and if possible should be constructed of insulating materials to protect powders from heat.
 4. Keep powder out of reach of children.
 5. Do not mix powders of different kinds.
 6. Pour out only the amount of powder needed for immediate work.
 7. Check the powder measure each time it is used. Make sure the settings have not been accidentally changed. Check-weight "thrown charges" frequently.
 8. Clean up spilled powder. Use a brush and dustpan; do not use a vacuum cleaner.
 9. Do not repackage. Store powder only in its original containers. Do not use the containers to store other powders and materials, or for any other purpose.
- ▲ Do not take internally. In case of ingestion, cause vomiting by putting finger down throat. Call physician.
 - ▲ Prevent contact with food, chewing and smoking material.
 - ▲ Have adequate ventilation during handling.
 - ▲ Wash hands and face thoroughly after handling.
 - ▲ Do not carry powder in clothing.

WARNING!

Read before using

The task of reloading centerfire metallic cartridges should only be undertaken by someone familiar with reloading procedures. One must be observe all possible safety precautions and practices in accordance with proper handling of any explosive. We suggest you read up on positive reloading procedures. There are a number of excellent books on the subject.

After powder leave our plant, we have no control over improper storage, handling, loading or use, or on the condition of firearms or component used. For these reasons we make **no warranty** of merchantability or fitness for a particular use. All our loading data is intended solely for use in modern weapons.

Working up charges. For all pistol and revolver loads, first load and fire a few cartridges at 10% less (starting) charge than is shown, watching for any sign of excessive pressure (difficult extraction, flattened or blown primers, unusual recoil).

Handguns loads. Many pistol and revolver loads require only small amounts of fast-burning powders; therefore: guard against accidental double charges, and even multiple charges, whether loading with handtools or with progressive loading devices; be sure that each bullet is positioned in the case so that the minimum overall length is not violated.

Reloading data on-line: www.explosia.cz

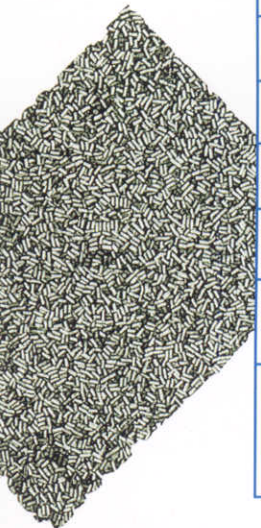


6.35 Browning / .25 AUTO																							
Barrel Length: 150 mm				Case: Sellier & Bellot				Max. Length: 23.11 mm															
Rise: 10"				Primer: 4.4 SP Boxer S&B				Max. average Pressure C.I.P.: 1 200 Bar															
Bullet:		Recommended Loads			Maximum Loads			Cartridge Length															
FMJ		Charge Powders		Velocity V _s		Charge Powders					Velocity V _s		Pressure										
3.30 g		g		grs		m/s		FPS		g		grs		m/s		FPS		Bar		P.S.I.			
50 grs		0.078		1.2		180		590		0.088		1.4		220		722		1160		16836		23.0 mm	

7.62 x 25 Tokarev												
Barrel Length: 150 mm				Case: Sellier & Bellot				Max. Length: 35.20 mm				
Rise: 9.44"				Primer: 4.4 SP Boxer S&B				Max. average Pressure C.I.P.: 2.400 Bar				
Bullet:		Recommended Loads						Maximum Loads				
FMJ 5.50 g 85 grs		Charge Powders		Velocity V _s		Charge Powders		Velocity V _s		Pressure		Cartridge Length
		g	grs	m/s	FPS	g	grs	m/s	FPS	Bar	P.S.I.	
		0.39	6.0	555	1820	0.40	6.2	575	1886	2340	33963	
35.0 mm												

7.65 Browning / .32 AUTO												
Barrel Length: 97 mm				Case: Sellier & Bellot				Max. Length: 25.00 mm				
Rise: 9.44"				Primer: 4.4 SP Boxer S&B				Max. average Pressure C.I.P.: 600 Bar				
Bullet:		Recommended Loads				Maximum Loads						
FMJ 4.75 g 73 grs	Charge Powders		Velocity V _s		Charge Powders		Velocity V _s		Pressure			Cartridge Length
	g	grs	m/s	FPS	g	grs	m/s	FPS	Bar	P.S.I.		
	0.155	2.4	280	918	0.170	2.6	310	1 017	1 590	23 077	25.0 mm	

9 mm Browning Court / .380 ACP										
Barrel Length: 150 mm				Case: Sellier & Bellot				Max. Length: 25.00 mm		
Rise: 9.85"				Primer: 4.4 SP Boxer S&B				Max. average Pressure C.I.P.: 1350 Bar		
Bullet:		Recommended Loads			Maximum Loads			Cartridge Length		
FMJ 6.00 g 92 grs	Charge Powders		Velocity V _s		Charge Powders		Velocity V _s			
	g	grs	m/s	FPS	g	grs	m/s	FPS	Bar	P.S.I.
	0.21	3.2	280	918	0.25	3.9	350	1148	1300	18868



9 mm Luger / 9 mm Parabellum / 9 x 19 mm											
Barrel Length: 150 mm				Case: Sellier & Bellot				Max. Length: 29.70 mm			
Rise: 9.85"				Primer: 4.4 SP Boxer S&B				Max. average Pressure C.I.P.: 2.350 Bar			
Bullet:		Recommended Loads			Maximum Loads			Cartridge Length			
FMJ		Charge Powders		Velocity V _s		Pressure					
7.50 g		g		grs		m/s		FPS		Bar	
115 grs		0.31		4.8		350		1148		0.33	

FMJ 8.00 g 124 grs	Charge Powders	Velocity V _s	Charge Powders	Velocity V _s	Pressure				
	g	grs	m/s	FPS	g	grs	m/s	FPS	Bar
	0.30	4.6	340	1115	0.32	4.9	355	1164	2240
							32511		
							29.69 mm		

JHP 7.50 g 115 grs	Charge Powders	Velocity V _s	Charge Powders	Velocity V _s	Pressure				
	g	grs	m/s	FPS	g	grs	m/s	FPS	Bar
	0.28	4.3	350	1148	0.30	4.6	365	1197	2320
							33672		
							29.69 mm		

SP 6.50 g 100 grs	Charge Powders	Velocity V _s	Charge Powders	Velocity V _s	Pressure				
	g	grs	m/s	FPS	g	grs	m/s	FPS	Bar
	0.30	4.6	375	1230	0.33	5.1	410	1345	2350
							34108		
							27.50 mm		

SP 8.00 g 124 grs	Charge Powders	Velocity V _s	Charge Powders	Velocity V _s	Pressure				
	g	grs	m/s	FPS	g	grs	m/s	FPS	Bar
	0.28	4.2	340	1115	0.30	4.6	355	1164	2350
							34108		
							28.40 mm		

LRN 8.00 g 124 grs	Charge Powders	Velocity V _s	Charge Powders	Velocity V _s	Pressure				
	g	grs	m/s	FPS	g	grs	m/s	FPS	Bar
	0.28	4.3	340	1115	0.31	4.8	360	1181	2340
							33963		
							28.00 mm		

FMJ 9.00 g 140 grs	Charge Powders	Velocity V _s	Charge Powders	Velocity V _s	Pressure				
	g	grs	m/s	FPS	g	grs	m/s	FPS	Bar
	0.20	3.1	270	886	0.23	3.5	310	1017	2300
							33382		
							26.50 mm		

9 x 21 mm												
Barrel Length: 150 mm				Case: Sellier & Bellot				Max. length: 29.75 mm				
Rise: 9.85"				Primer: 4.4 SP Boxer S&B				Max. average Pressure C.I.P.: 2.350 Bar				
Bullet:		Recommended Loads						Maximum Loads				
FMJ 7.50 g 115 grs	Charge Powders		Velocity V/s		Charge Powders		Velocity V/s		Pressure		Cartridge Length	
	g	grs	m/s	FPS	g	grs	m/s	FPS	Bar	P.S.I.		
	0.32	4.9	350	1148	0.35	5.4	365	1197	2350	34108		
FMJ		Charge Powders		Velocity V/s		Charge Powders		Velocity V/s		Pressure		
8.00 g	g	grs	m/s	FPS	g	grs	m/s	FPS	Bar	P.S.I.		
120 grs	0.30	4.6	340	1115	0.32	4.9	360	1181	2340	33963	29.75 mm	

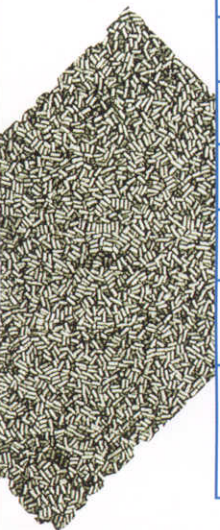
FMJ 8.00 g 120 grs	Charge Powders	Velocity V _s	Charge Powders	Velocity V _s	Pressure				
	g	grs	m/s	FPS	g	grs	m/s	FPS	Bar
	0.30	4.6	340	1115	0.32	4.9	360	1181	2340
							33963		
							29.75 mm		

.357 SIG						
Barrel Length: 150 mm			Case: Sellier & Bellot		Max. Length: 28.96 mm	
Rise: 16.00"			Primer: 4.4 S&B Boxer S&B		Max. average Pressure C.I.P.: 3 050 Bar	
Bullet:	Recommended Loads		Maximum Loads			Cartridge Length
FMJ	Charge Powders	Velocity V _s	Charge Powders	Velocity V _s	Pressure	
9.00 g	g	grs	g	grs	m/s	FPS
140 grs	0.42	6.5	370	1 214	0.45	6.9
					410	1 345
					3 030	43 977
						28.96 mm

9 mm Makarov						
Barrel Length: 150 mm			Case: Sellier & Bellot		Max. Length: 25.00 mm	
Rise: 9.45"			Primer: 4.4 SP Boxer S&B		Max. average Pressure C.I.P.: 1 600 Bar	
Bullet:	Recommended Loads		Maximum Loads			Cartridge Length
FMJ	Charge Powders	Velocity V _s	Charge Powders	Velocity V _s	Pressure	
6.10 g	g	grs	g	grs	m/s	FPS
95 grs	0.26	4.0	310	1 017	0.30	4.6
					370	1 214
					1 560	22 642
						25.00 mm

.38 SPECIAL						
Barrel Length: 150 mm			Case: Sellier & Bellot		Max. Length: 39.37 mm	
Rise: 18.72"			Primer: 4.4 SP Boxer S&B		Max. average Pressure C.I.P.: 1 500 Bar	
Bullet:	Recommended Loads		Maximum Loads			Cartridge Length
FMJ	Charge Powders	Velocity V _s	Charge Powders	Velocity V _s	Pressure	
6.10 g	g	grs	g	grs	m/s	FPS
95 grs	0.26	4.0	310	1 017	0.30	4.6
					370	1 214
					1 560	22 642
						25.00 mm

.45 AUTO						
Barrel Length: 150 mm			Case: Sellier & Bellot		Max. Length: 32.35 mm	
Rise: 15.98"			Primer: 5.33 LP Boxer S&B		Max. average Pressure C.I.P.: 1 300 Bar	
Bullet:	Recommended Loads		Maximum Loads			Cartridge Length
FMJ	Charge Powders	Velocity V _s	Charge Powders	Velocity V _s	Pressure	
10.25 g	g	grs	g	grs	m/s	FPS
158 grs	0.35	5.4	265	869	0.40	6.2
					310	1 017
					1 500	21 771
						38.80 mm
SP	Charge Powders	Velocity V _s	Charge Powders	Velocity V _s	Pressure	Cartridge Length
10.25 g	g	grs	g	grs	m/s	FPS
158 grs	0.35	5.4	270	886	0.40	6.2
					300	984
					1 480	21 481
						38.80 mm
LRN	Charge Powders	Velocity V _s	Charge Powders	Velocity V _s	Pressure	Cartridge Length
10.25 g	g	grs	g	grs	m/s	FPS
158 grs	0.32	4.9	280	918	0.36	5.6
					300	984
					1 420	20 610
						39.35 mm
WC	Charge Powders	Velocity V _s	Charge Powders	Velocity V _s	Pressure	Cartridge Length
9.60 g	g	grs	g	grs	m/s	FPS
148 grs	0.20	3.1	200	656	0.26	4.0
					260	853
					1 370	19 884
						30.20 mm



.357 Magnum						
Barrel Length: 150 mm			Case: Sellier & Bellot		Max. Length: 40.39 mm	
Rise: 18.72"			Primer: 4.4 S&B Boxer S&B		Max. average Pressure C.I.P.: 3 000 Bar	
Bullet:	Recommended Loads		Maximum Loads			Cartridge Length
FMJ	Charge Powders	Velocity V _s	Charge Powders	Velocity V _s	Pressure	
10.25 g	g	grs	g	grs	m/s	FPS
158 grs	0.49	7.6	370	1 214	0.52	8.0
					380	1 246
					2 350	34 108
						40.39 mm
SP	Charge Powders	Velocity V _s	Charge Powders	Velocity V _s	Pressure	Cartridge Length
10.25 g	g	grs	g	grs	m/s	FPS
158 grs	0.49	7.6	370	1 214	0.52	8.0
					380	1 246
					2 950	42 816
						40.39 mm

.40 Smith & Wesson						
Barrel Length: 150 mm			Case: Sellier & Bellot		Max. Length: 28.83 mm	
Rise: 15.98"			Primer: 4.4 S&B Boxer S&B		Max. average Pressure C.I.P.: 2 250 Bar	
Bullet:	Recommended Loads		Maximum Loads			Cartridge Length
FMJ	Charge Powders	Velocity V _s	Charge Powders	Velocity V _s	Pressure	
11.70 g	g	grs	g	grs	m/s	FPS
180 grs	0.32	4.9	290	951	0.34	5.2
					310	1 017
					2 240	32 511
						28.80 mm

.44 Remington Magnum						
Barrel Length: 150 mm			Case: Sellier & Bellot		Max. Length: 40.89 mm	
Rise: 20.00"			Primer: 5.33 LP Boxer S&B		Max. average Pressure C.I.P.: 2 800 Bar	
Bullet:	Recommended Loads		Maximum Loads			Cartridge Length
SP	Charge Powders	Velocity V _s	Charge Powders	Velocity V _s	Pressure	
15.60 g	g	grs	g	grs	m/s	FPS
240 grs	0.60	9.3	335	1 099	0.66	10.2
					360	1 181
					2 720	39 478
						40.40 mm

.45 AUTO						
Barrel Length: 150 mm			Case: Sellier & Bellot		Max. Length: 32.35 mm	
Rise: 15.98"			Primer: 5.33 LP Boxer S&B		Max. average Pressure C.I.P.: 1 300 Bar	
Bullet:	Recommended Loads		Maximum Loads			Cartridge Length
FMJ	Charge Powders	Velocity V _s	Charge Powders	Velocity V _s	Pressure	
14.90 g	g	grs	g	grs	m/s	FPS
230 grs	0.36	5.6	250	820	0.40	6.1
					270	886
					1 270	18 433
						32.35 mm