

RIFLE LOADS USING NOBEL RIFLE, REVOLVER AND PISTOL HANDLOADING POWDERS

Calibre	Bullet Weight/Type	Recommended Nobel Powder	Maximum Load		Suggested Load	
			Charge (Grains)	Muzzle Velocity (ft/sec)	Charge (Grains)	Muzzle Velocity (ft/sec)
.22 K Hornet	40 grain Metal Covered	Revolver Powder No. 1	11.0	3130	10.0	3080
		Rifle Powder No. 3	14.0	2740	13.0	2620
	45 grain Metal Covered	Revolver Powder No. 1	10.5	2980	9.0	2785
		Rifle Powder No. 3	14.0	2700	13.0	2500
	50 grain Metal Covered	Revolver Powder No. 1	10.0	2715	9.0	2560
		Rifle Powder No. 3	14.0	2590	13.0	2420
.22/250	45 grain Metal Covered	Rifle Powder No. 1	39.0	4000	36.0	3850
		Rifle Powder No. 2	36.0	3965	33.0	3815
	50 grain Metal Covered	Rifle Powder No. 1	38.0	3960	35.0	3810
		Rifle Powder No. 2	35.0	3925	32.0	3775
	55 grain Metal Covered	Rifle Powder No. 0	41.0	3665	38.0	3515
		Rifle Powder No. 1	36.0	3840	33.0	3690
		Rifle Powder No. 2	34.0	3780	31.0	3630
	60 grain Metal Covered	Rifle Powder No. 0	39.0	3540	36.0	3390
		Rifle Powder No. 1	35.0	3720	32.0	3570
		Rifle Powder No. 2	33.0	3670	30.0	3520
.220 Swift	45 grain Metal Covered	Rifle Powder No. 0	46.0	4110	41.0	3620
		Rifle Powder No. 1	42.0	4035	37.0	3775
		Rifle Powder No. 2	38.0	4040	34.0	3730
	50 grain Metal Covered	Rifle Powder No. 0	46.0	3930	41.0	3590
		Rifle Powder No. 1	41.0	4000	36.0	3520
		Rifle Powder No. 2	37.0	3920	32.0	3650
	55 grain Metal Covered	Rifle Powder No. 0	45.0	3890	40.0	3440
		Rifle Powder No. 1	40.0	3860	35.0	3470
		Rifle Powder No. 2	36.0	3810	31.0	3460
.222 Remington	45 grain Metal Covered	Rifle Powder No. 2	23.5	3360	20.5	3100
		Rifle Powder No. 3	22.0	3340	19.0	3120

RIFLE LOADS USING NOBEL RIFLE, REVOLVER AND PISTOL HANDLOADING POWDERS *continued*

Calibre	Bullet Weight/Type	Recommended Nobel Powder	Maximum Load		Suggested Load	
			Charge (Grains)	Muzzle Velocity (ft/sec)	Charge (Grains)	Muzzle Velocity (ft/sec)
.222 Remington Magnum	45 grain Metal Covered	Rifle Powder No. 1	28.0	3570	26.0	3220
		Rifle Powder No. 2	27.0	3580	23.0	3190
		Rifle Powder No. 3	24.0	3500	21.0	3360
	50 grain Metal Covered	Rifle Powder No. 1	27.0	3430	24.0	3190
		Rifle Powder No. 2	25.0	3400	22.0	3070
		Rifle Powder No. 3	23.5	3440	20.5	3200
	55 grain Metal Covered	Rifle Powder No. 1	27.0	3370	25.0	2940
		Rifle Powder No. 2	25.0	3290	23.0	2975
		Rifle Powder No. 3	21.0	3370	19.0	3190
.244 Remington	70 grain Metal Covered	Rifle Powder No. 0	48.0	3530	45.0	3380
		Rifle Powder No. 1	45.0	3770	39.0	3470
		Rifle Powder No. 2	41.0	3685	36.0	3465
	75 grain Metal Covered	Rifle Powder No. 0	47.0	3480	44.0	3310
		Rifle Powder No. 1	42.0	3530	37.0	3360
		Rifle Powder No. 2	38.0	3430	35.0	3280
	80 grain Metal Covered	Rifle Powder No. 0	47.0	3390	44.0	3240
		Rifle Powder No. 1	40.0	3410	36.0	3200
		Rifle Powder No. 2	36.0	3320	33.0	3170
	85 grain Metal Covered	Rifle Powder No. 0	47.0	3360	44.0	3210
		Rifle Powder No. 1	40.0	3285	36.0	3085
		Rifle Powder No. 2	36.0	3170	33.0	3020
	90 grain Metal Covered	Rifle Powder No. 0	44.0	3240	41.0	3090
		Rifle Powder No. 1	40.0	3180	35.0	2930
		Rifle Powder No. 2	35.0	3080	32.0	2930
	100 grain Metal Covered	Rifle Powder No. 0	44.0	3080	41.0	2930
		Rifle Powder No. 1	40.0	3135	37.0	2985
		Rifle Powder No. 2	35.0	3010	32.0	2860
	105 grain Metal Covered	Rifle Powder No. 0	39.0	2860	36.0	2710
		Rifle Powder No. 1	34.0	2695	31.0	2540
		Rifle Powder No. 2	32.0	2690	29.0	2340

RIFLE LOADS USING NOBEL RIFLE, REVOLVER AND PISTOL HANDLOADING POWDERS *continued*

Calibre	Bullet Weight/Type	Recommended Nobel Powder	Maximum Load		Suggested Load	
			Charge (Grains)	Muzzle Velocity (ft/sec)	Charge (Grains)	Muzzle Velocity (ft/sec)
.264 Winchester Magnum	100 grain Metal Covered	Rifle Powder No. 0	62.5	3570	60.5	3480
		Rifle Powder No. 1	55.0	3500	53.0	3410
		Rifle Powder No. 2	51.0	3420	49.0	3300
	120-125 grain Metal Covered	Rifle Powder No. 0	60.5	3280	58.0	3130
		Rifle Powder No. 1	53.5	3180	50.0	2960
		Rifle Powder No. 2	48.0	3130	46.0	2920
	140 grain Metal Covered	Rifle Powder No. 0	58.0	3055	56.0	2950
		Rifle Powder No. 1	50.0	2910	48.0	2820
		Rifle Powder No. 2	47.0	2820	45.0	2710
6.5 m.m. JAP	87 grain Metal Covered	Rifle Powder No. 0	41.0	3130	38.0	2980
		Rifle Powder No. 1	40.0	3250	36.0	3050
		Rifle Powder No. 2	36.0	3005	33.0	2850
	100 grain Metal Covered	Rifle Powder No. 0	40.0	2900	37.0	2750
		Rifle Powder No. 1	39.0	3040	35.0	2840
		Rifle Powder No. 2	35.0	2830	32.0	2680
	120 grain Metal Covered	Rifle Powder No. 0	39.0	2780	36.0	2630
		Rifle Powder No. 1	38.0	2930	34.0	2730
		Rifle Powder No. 2	34.0	2770	31.0	2620
	130 grain Metal Covered	Rifle Powder No. 0	38.0	2670	35.0	2520
		Rifle Powder No. 1	36.0	2720	33.0	2570
		Rifle Powder No. 2	33.0	2600	30.0	2450
	140 grain Metal Covered	Rifle Powder No. 0	37.0	2575	34.0	2420
		Rifle Powder No. 1	35.0	2690	32.0	2540
		Rifle Powder No. 2	32.0	2560	29.0	2410
	156 grain Metal Covered	Rifle Powder No. 0	36.0	2180	33.0	2030
		Rifle Powder No. 1	34.0	2400	30.0	2200
		Rifle Powder No. 2	31.0	2305	28.0	2155

RIFLE LOADS USING NOBEL RIFLE, REVOLVER AND PISTOL HANDLOADING POWDERS *—continued*

Calibre	Bullet Weight/Type	Recommended Nobel Powder	Maximum Load		Suggested Load	
			Charge (Grains)	Muzzle Velocity (ft/sec)	Charge (Grains)	Muzzle Velocity (ft/sec)
.270 Weatherby Magnum	100 grain Metal Covered	Rifle Powder No. 0	73.0	3740	70.0	3590
		Rifle Powder No. 1	65.0	3760	62.0	3610
		Rifle Powder No. 2	59.0	3730	56.0	3580
	130 grain Metal Covered	Rifle Powder No. 0	68.0	3450	65.0	3300
		Rifle Powder No. 1	59.0	3440	56.0	3290
		Rifle Powder No. 2	54.0	3410	51.0	3260
	150 grain Metal Covered	Rifle Powder No. 0	66.0	3270	63.0	3170
		Rifle Powder No. 1	57.0	3250	54.0	3100
	170 grain Metal Covered	Rifle Powder No. 0	61.0	3030	58.0	2880
7 m.m. Remington Magnum	130 grain Metal Covered	Rifle Powder No. 0	68.0	3340	65.0	3190
		Rifle Powder No. 1	57.0	3200	54.0	3050
		Rifle Powder No. 2	56.0	3210	53.0	3060
	145 grain Metal Covered	Rifle Powder No. 0	66.0	3100	63.0	2950
		Rifle Powder No. 1	56.0	3110	51.0	2800
		Rifle Powder No. 2	54.0	2950	51.0	2800
	156 grain Metal Covered	Rifle Powder No. 0	64.0	2950	61.0	2800
		Rifle Powder No. 1	53.0	2790	49.0	2590
		Rifle Powder No. 2	53.0	2790	49.0	2590
.300 Savage	110 grain Metal Covered	Rifle Powder No. 1	45.0	3005	42.0	2855
		Rifle Powder No. 2	41.0	2850	38.0	2700
		Rifle Powder No. 3	38.0	2790	35.0	2650
	130 grain Metal Covered	Rifle Powder No. 1	44.0	2800	41.0	2650
		Rifle Powder No. 2	40.0	2780	37.0	2630
		Rifle Powder No. 3	36.0	2725	33.0	2575
	150 grain Metal Covered	Rifle Powder No. 1	42.0	2690	39.0	2540
		Rifle Powder No. 2	39.0	2565	36.0	2415
		Rifle Powder No. 3	37.0	2470	35.0	2320
	170 grain Metal Covered	Rifle Powder No. 1	41.0	2470	37.0	2205
		Rifle Powder No. 2	37.0	2335	34.0	2120
		Rifle Powder No. 3	36.0	2300	34.0	2120

RIFLE LOADS USING NOBEL RIFLE, REVOLVER AND PISTOL HANDLOADING POWDERS *continued*

Calibre	Bullet Weight, Type	Recommended Nobel Powder	Maximum Load		Suggested Load	
			Charge (Grains)	Muzzle Velocity (ft./sec)	Charge (Grains)	Muzzle Velocity (ft./sec)
.30 MI Carbine	110 grain Metal Covered	Revolver Powder No. 1	15.7	2000	14.7	1900
		Pistol Powder No. 2	9.5	1700	8.0	1600
7.7 m.m. JAP	150 grain Metal Covered	Rifle Powder No. 0	53.0	2720	50.0	2570
		Rifle Powder No. 1	46.0	2760	42.0	2560
		Rifle Powder No. 2	41.0	2700	38.0	2550
	180 grain Metal Covered	Rifle Powder No. 0	49.0	2420	46.0	2270
		Rifle Powder No. 1	42.0	2455	38.0	2260
		Rifle Powder No. 2	38.0	2390	35.0	2240
.303/22 Full length	45 grain Metal Covered	Rifle Powder No. 1	37.0	3640	34.0	3490
		Rifle Powder No. 2	34.0	3530	31.0	3380
	50 grain Metal Covered	Rifle Powder No. 1	36.0	3600	33.0	3450
		Rifle Powder No. 2	33.5	3505	30.0	3360
.303/25	87 grain Metal Covered	Rifle Powder No. 1	*35.0	3015	*32.0	2865
		Rifle Powder No. 2	*34.0	2990	*31.0	2840
	100 grain Metal Covered	Rifle Powder No. 1	*35.0	2810	*32.0	2660
		Rifle Powder No. 2	*33.0	2785	*30.0	2635
* Reduce powder charges by 3.0 grains for Lee-Enfield actions						
.303/270	130 grain Metal Covered	Rifle Powder No. 1	38.5	2690	35.5	2550
.310 Cadet	99-120 grain Cast Plain Base	Revolver Powder No. 1	8.6	1266	8.3	1160
		Pistol Powder No. 2	5.8	1330	5.5	1230
		Pistol Powder No. 3	4.6	1120	4.3	1075
.318 Rimless Nitro Express	250 grain Metal Covered	Rifle Powder No. 0	51.0	2450	48.0	2300
		Rifle Powder No. 1	45.0	2370	42.0	2220
		Rifle Powder No. 2	40.0	2230	37.0	2080

RIFLE LOADS USING NOBEL RIFLE, REVOLVER AND PISTOL HANDLOADING POWDERS *continued*

Calibre	Bullet Weight, Type	Recommended Nobel Powder	Maximum Load		Suggested Load	
			Charge (Grains)	Muzzle Velocity (ft/sec)	Charge (Grains)	Muzzle Velocity (ft/sec)
.32-20 Winchester Rifle DO NOT USE IN REVOLVERS	80 grain Metal Covered	Revolver Powder No. 1	13.0	1850	11.5	1540
	100 grain Metal Covered	Revolver Powder No. 1	12.6	1660	11.0	1370
	115 grain Metal Covered	Revolver Powder No. 1	12.6	1600	11.0	1300
	139 grain Metal Covered	Revolver Powder No. 1	12.6	1550	11.0	1260
.348 Winchester	150 grain Metal Covered	Rifle Powder No. 0	65.0	2790	62.0	2640
		Rifle Powder No. 1	58.0	2840	55.0	2690
		Rifle Powder No. 2	53.0	2740	50.0	2590
	180 grain Metal Covered	Rifle Powder No. 0	64.0	2640	61.0	2490
		Rifle Powder No. 1	56.0	2670	53.0	2520
		Rifle Powder No. 2	52.0	2690	49.0	2540
	200 grain Metal Covered	Rifle Powder No. 0	62.0	2490	59.0	2340
		Rifle Powder No. 1	54.0	2500	51.0	2350
		Rifle Powder No. 2	48.0	2490	45.0	2345
	220 grain Metal Covered	Rifle Powder No. 0	59.0	2290	56.0	2140
		Rifle Powder No. 1	52.0	2330	49.0	2180
		Rifle Powder No. 2	46.0	2280	43.0	2130
	250 grain Metal Covered	Rifle Powder No. 0	56.0	2080	53.0	1930
		Rifle Powder No. 1	50.0	2145	47.0	1995

NOBEL RIFLE POWDERS

Nobel Rifle Powders are single-base powders, specially designed to give the maximum flexibility and the most comprehensive range of loads. They are all coated with methyl centralite; this gives improved ballistic characteristics and reduces gun erosion.

NOBEL RIFLE POWDER No. 0

A single-base progressive-burning tubular powder coated with methyl centralite. It is slower burning than Rifle Powder No. 1 and is ideally suited for heavy bullets in larger capacity cases.

NOBEL RIFLE POWDER No. 1

A particularly flexible progressive-burning single-base tubular powder coated with methyl centralite. With it high velocities can be developed, with moderate pressures. It is very well suited to high velocity "hot" loads, is relatively slow burning, and can be adapted to high intensity "wild-cat" loads.

NOBEL RIFLE POWDER No. 2

A single-base progressive-burning tubular powder coated with methyl centralite, designed for use in cartridges with normal powder capacities and medium weight bullets. It has the desired flexibility for use in such loads.

NOBEL RIFLE POWDER No. 3

A progressive-burning single-base tubular powder coated with methyl centralite. It is designed to be relatively fast burning in order to give high velocities from the light bullets in medium capacity cases. This powder is suited to cartridges such as the .222 in. Remington.

NOBEL PISTOL POWDERS

The H.C.L. powders designed for revolver and pistol ammunition are of the double-base type. The pistol powders are porous; this makes them readily ignitable and ensures that they burn smoothly in the short time interval available. The three powders offered have been designed to cover all the normal requirements of hand-gun reloaders.

NOBEL REVOLVER POWDER No. 1

A non-porous double-base, completely gelatinised tubular powder, designed to give very regular ballistics in heavy load magnum revolver charges.

NOBEL PISTOL POWDER No. 2

A porous disc-shaped double-base powder, particularly suited for normal charge pistol loads which require a rapid burning powder giving moderate velocities.

NOBEL PISTOL POWDER No. 3

A porous disc-shaped double-base powder, that has been designed to have a wide application in pistol and revolver reloading where a large selection of cartridges can be reloaded with one powder. It is particularly suitable for light loads.

STORAGE

These powders should be stored at even temperature, not in direct sunlight, and kept in closed containers to avoid absorption of excess moisture, or pollution with foreign material.

CAUTION

The charges recommended in the booklet are based on long and exhaustive tests in the Nobel Division laboratories and testing ranges. They are suitable for all normal weapons but since variations over which we have no control (e.g. bore, chamber, head space dimensions and loading conditions) can affect velocities and pressures, no responsibility can be accepted for the results obtained.

RIFLE POWDERS

	Bullet Weight Type	Recommended Nobel Powder	Maximum Load		Suggested Load	
			Charge (Grains)	Muzzle Velocity (ft/sec)	Charge (Grains)	Muzzle Velocity (ft/sec)
50 HUNTER	45 grain Metal Covered	Revolver Powder No. 1	10.0	2680	7.8	2400
	50 grain Metal Covered	Revolver Powder No. 1	9.5	2550	7.3	2300
55 RANGING	50 grain Metal Covered	Rifle Powder No. 1	25.0	3270	22.0	2965
		Rifle Powder No. 2	23.0	3280	20.0	2970
		Rifle Powder No. 3	21.5	3240	18.5	2980
	55 grain Metal Covered	Rifle Powder No. 1	25.0	3180	23.0	2990
		Rifle Powder No. 2	22.0	3190	20.0	2940
		Rifle Powder No. 3	18.0	3070	16.0	2900
75 WIND-STOP	75 grain Metal Covered	Rifle Powder No. 0	46.0	3420	41.0	3090
		Rifle Powder No. 1	41.0	3480	36.0	3240
		Rifle Powder No. 2	37.5	3400	32.5	3100
	80 grain Metal Covered	Rifle Powder No. 0	44.0	3420	39.0	3130
		Rifle Powder No. 1	41.0	3300	36.0	3050
		Rifle Powder No. 2	37.0	3270	32.0	3020
	100 grain Metal Covered	Rifle Powder No. 0	42.0	3070	37.0	2850
		Rifle Powder No. 1	39.0	3030	34.0	2800

RIFLE POWDERS -continued

	Bullet Weight Type	Recommended Nobel Powder	Maximum Load		Suggested Load	
			Charge (Grains)	Muzzle Velocity (ft/sec)	Charge (Grains)	Muzzle Velocity (ft/sec)
75 BOWMAN	87 grain Metal Covered	Rifle Powder No. 0	41.0	3120	37.0	2900
		Rifle Powder No. 1	38.0	3150	32.0	2910
		Rifle Powder No. 2	35.0	2850	31.5	2675
	100 grain Metal Covered	Rifle Powder No. 0	40.0	2990	36.0	2780
		Rifle Powder No. 1	37.0	3070	33.0	2870
		Rifle Powder No. 2	31.5	2775	27.5	2555
	Reduce maximum charge by 3.0 grains for lever action rifles.					
75 RANGING	100 grain Metal Covered	Rifle Powder No. 0	45.0	3050	41.0	2865
		Rifle Powder No. 1	40.0	3035	36.0	2840
		Rifle Powder No. 2	35.5	2950	32.0	2770
	Reduce maximum charge by 3.0 grains for lever action rifles.					
155 BOWMAN	155 grain Metal Covered	Rifle Powder No. 0	42.0	2450	38.0	2260
		Rifle Powder No. 1	37.0	2415	33.0	2200
		Rifle Powder No. 2	34.0	2370	30.0	2150
160 BOWMAN	160 grain Metal Covered	Rifle Powder No. 0	40.0	2340	36.0	2150
		Rifle Powder No. 1	34.5	2300	30.5	2110
		Rifle Powder No. 2	32.0	2280	28.0	2090

RIFLE POWDERS—continued

	Bullet Weight Type	Recommended Nobel Powder	Maximum Load		Suggested Load	
			Charge (Grains)	Muzzle Velocity (ft/sec)	Charge (Grains)	Muzzle Velocity (ft/sec)
7 mm Mauser (1893)	140 grain Metal Covered	Rifle Powder No. 0	50.0	2870	45.0	2620
		Rifle Powder No. 1	44.0	2820	41.0	2670
		Rifle Powder No. 2	40.5	2800	35.0	2530
	150 grain Metal Covered	Rifle Powder No. 0	49.0	2775	44.0	2520
		Rifle Powder No. 1	43.0	2720	39.0	2510
		Rifle Powder No. 2	40.0	2740	36.0	2540
	175 grain Metal Covered	Rifle Powder No. 0	47.0	2540	42.0	2300
		Rifle Powder No. 1	42.5	2535	39.5	2385
		Rifle Powder No. 2	38.0	2460	34.0	2250
Reduce maximum charge when using 1893-1896 Mauser.						
7 mm Mauser (1896)	160 grain Metal Covered	Rifle Powder No. 0	59.0	3090	54.0	2835
		Rifle Powder No. 1	55.0	3005	50.0	2770
	175 grain Metal Covered	Rifle Powder No. 0	58.5	2770	53.0	2520
170 Winchester		Rifle Powder No. 1	51.5	2800	46.0	2550
	100 grain Metal Covered	Rifle Powder No. 0	59.0	3200	54.0	2950
		Rifle Powder No. 1	53.0	3250	49.0	3050
		Rifle Powder No. 2	48.0	3240	44.0	3015
	130 grain Metal Covered	Rifle Powder No. 0	55.0	3140	50.5	2915
		Rifle Powder No. 1	49.0	3050	44.0	2850
		Rifle Powder No. 2	44.0	2960	40.0	2745
	150 grain Metal Covered	Rifle Powder No. 0	53.0	2845	48.0	2610
		Rifle Powder No. 1	47.0	2770	43.0	2570
		Rifle Powder No. 2	42.5	2700	39.0	2600
	170 grain Metal Covered	Rifle Powder No. 0	51.0	2635	46.0	2400
		Rifle Powder No. 1	44.0	2520	40.0	2320
		Rifle Powder No. 2	41.0	2500	37.0	2260

RIFLE POWDERS—continued

	Bullet Weight Type	Recommended Nobel Powder	Maximum Load		Suggested Load	
			Charge (Grains)	Muzzle Velocity (ft/sec)	Charge (Grains)	Muzzle Velocity (ft/sec)
30 Winchester	110 grain Metal Covered	Rifle Powder No. 2	37.0	2600	34.0	2450
		Rifle Powder No. 3	33.5	2710	31.5	2560
	150 grain Metal Covered	Rifle Powder No. 1	37.0	2500	32.0	2250
		Rifle Powder No. 2	35.0	2510	31.0	2255
		Rifle Powder No. 3	31.0	2350	27.0	2150
	170 grain Metal Covered	Rifle Powder No. 1	34.0	2200	31.0	2055
30 06 Springfield		Rifle Powder No. 2	33.0	2225	30.0	2080
		Rifle Powder No. 3	30.0	2160	26.0	1965
	110 grain Metal Covered	Rifle Powder No. 0	65.0	3280	60.0	3030
		Rifle Powder No. 1	57.0	3345	52.0	3120
		Rifle Powder No. 2	51.0	3230	49.0	3010
	130 grain Metal Covered	Rifle Powder No. 0	62.0	3025	57.0	2800
		Rifle Powder No. 1	55.0	3080	50.0	2850
		Rifle Powder No. 2	50.0	3040	45.0	2810
	150 grain Metal Covered	Rifle Powder No. 0	60.0	2995	55.0	2745
		Rifle Powder No. 1	55.0	3000	51.0	2800
		Rifle Powder No. 2	50.0	2950	46.0	2760
	180 grain Metal Covered	Rifle Powder No. 0	56.0	2680	51.0	2430
		Rifle Powder No. 1	50.0	2630	46.0	2430
		Rifle Powder No. 2	45.0	2600	41.0	2400
	187 grain Metal Covered	Rifle Powder No. 0	55.0	2645	50.0	2405
		Rifle Powder No. 1	50.0	2610	45.0	2400
		Rifle Powder No. 2	44.0	2570	40.0	2365
	220 grain Metal Covered	Rifle Powder No. 0	53.0	2400	48.0	2150
		Rifle Powder No. 1	46.0	2300	42.0	2125
		Rifle Powder No. 2	41.5	2235	37.5	2035





RIFLE POWDERS *continued*

	Bullet Weight Type	Recommended Nobel Powder	Maximum Load		Suggested Load	
			Charge (Grains)	Muzzle Velocity (ft sec)	Charge (Grains)	Muzzle Velocity (ft sec)
300 Grain Powder	150 grain Metal Covered	Rifle Powder No. 0	69.0	3150	64.0	2915
		Rifle Powder No. 1	60.0	3125	55.0	2900
		Rifle Powder No. 2	56.0	3165	51.0	2925
	180 grain Metal Covered	Rifle Powder No. 0	65.0	2960	60.0	2710
		Rifle Powder No. 1	56.0	2835	51.0	2600
		Rifle Powder No. 2	52.0	2795	47.0	2545
	187 grain Metal Covered	Rifle Powder No. 0	64.0	2780	59.0	2530
		Rifle Powder No. 1	55.0	2750	50.0	2500
		Rifle Powder No. 2	50.0	2710	45.0	2470
	220 grain Metal Covered	Rifle Powder No. 0	61.0	2635	56.0	2400
		Rifle Powder No. 1	53.0	2620	48.0	2390
300 Grain Powder	130 grain Metal Covered	Rifle Powder No. 1	43.0	2570	39.0	2380
		Rifle Powder No. 2	43.0	2840	39.0	2640
		Rifle Powder No. 3	42.0	2855	38.0	2635
	150 grain Metal Covered	Rifle Powder No. 1	43.0	2500	41.0	2430
		Rifle Powder No. 2	43.0	2720	39.0	2540
		Rifle Powder No. 3	42.0	2790	39.0	2640
	173 grain Metal Covered	Rifle Powder No. 1	40.0	2310	38.0	2235
		Rifle Powder No. 2	40.0	2500	36.0	2325
		Rifle Powder No. 3	38.5	2500	34.5	2350
	180 grain Metal Covered	Rifle Powder No. 1	40.0	2270	38.0	2180
		Rifle Powder No. 2	39.5	2460	35.5	2290
		Rifle Powder No. 3	38.0	2465	34.0	2285
	215 grain Metal Covered	Rifle Powder No. 1	40.0	2200	36.0	2025
		Rifle Powder No. 2	38.0	2230	34.0	2050
		Rifle Powder No. 3	37.0	2250	33.0	2045



RIFLE POWDERS- *continued*

	Bullet Weight Type	Recommended Nobel Powder	Maximum Load		Suggested Load	
			Charge (Grains)	Muzzle Velocity (ft sec)	Charge (Grains)	Muzzle Velocity (ft sec)
300 Grain Powder	110 grain Metal Covered	Rifle Powder No. 2	47.0	3170	42.0	2920
		Rifle Powder No. 3	41.0	3200	36.0	2950
	130 grain Metal Covered	Rifle Powder No. 1	48.0	2800	44.0	2605
		Rifle Powder No. 2	45.0	2840	41.0	2635
		Rifle Powder No. 3	42.0	2850	38.0	2700
	150 grain Metal Covered	Rifle Powder No. 0	47.0	2520	44.0	2370
		Rifle Powder No. 1	46.0	2800	41.0	2550
		Rifle Powder No. 2	44.0	2820	40.0	2640
	180 grain Metal Covered	Rifle Powder No. 0	46.0	2430	41.0	2230
		Rifle Powder No. 1	43.0	2530	38.0	2280
		Rifle Powder No. 2	40.0	2540	35.0	2290
	187 grain Metal Covered	Rifle Powder No. 0	46.0	2390	41.0	2140
		Rifle Powder No. 1	42.0	2515	38.0	2320
		Rifle Powder No. 2	40.0	2510	35.0	2405
	220 grain Metal Covered	Rifle Powder No. 0	44.0	2160	39.5	1935
		Rifle Powder No. 1	40.0	2160	36.0	1960
300 Grain Powder	150 grain Metal Covered	Rifle Powder No. 0	74.0	3360	68.0	3060
		Rifle Powder No. 1	65.0	3350	60.0	3175
		Rifle Powder No. 2	57.0	3335	52.0	3100
	180 grain Metal Covered	Rifle Powder No. 0	70.0	3100	65.0	2870
		Rifle Powder No. 1	60.0	3110	55.0	2875
		Rifle Powder No. 2	53.0	3070	48.0	2820
	187 grain Metal Covered	Rifle Powder No. 0	69.5	3030	64.5	2800
		Rifle Powder No. 1	60.0	3110	55.0	2875
		Rifle Powder No. 2	52.5	3010	47.5	2810
	220 grain Metal Covered	Rifle Powder No. 1	55.0	2750	50.0	2525

RIFLE POWDERS—continued

	Bullet Weight Type	Recommended Nobel Powder	Maximum Load		Suggested Load	
			Charge (Grains)	Muzzle Velocity (ft/sec)	Charge (Grains)	Muzzle Velocity (ft/sec)
	154 grain Metal Covered	Rifle Powder No. 0 Rifle Powder No. 1 Rifle Powder No. 2	58.0 53.0 48.0	2780 2942 2920	53.0 48.0 43.0	2530 2705 2710
	227 grain Metal Covered	Rifle Powder No. 0 Rifle Powder No. 1 Rifle Powder No. 2	53.0 48.0 43.5	2405 2420 2380	48.0 44.0 40.0	2250 2230 2265
	*154 grain bullet.	**227 grain bullet.				
	198 grain Metal Covered	Rifle Powder No. 1 Rifle Powder No. 2	47.0 46.0	2600 2620	42.0 42.0	2350 2435
	Use .323 bullets in M98 rifles only. Do not use in M88 rifles.					
	232 grain Metal Covered	Rifle Powder No. 1	61.0	2625	56.0	2400
	258 grain Metal Covered	Rifle Powder No. 1	56.0	2425	51.0	2225
	286 grain Metal Covered	Rifle Powder No. 2	52.0	2350	47.0	2200
	165 grain Metal Covered	Rifle Powder No. 1 Rifle Powder No. 2 Rifle Powder No. 3	28.0 27.0 24.0	1820 1800 1740	25.0 24.0 22.0	1670 1650 1640
	200 grain Metal Covered	Rifle Powder No. 2	66.0	3000	61.0	2750
	250 grain Metal Covered	Rifle Powder No. 1	70.0	2800	65.0	2625

RIFLE POWDERS—continued

	Bullet Weight Type	Recommended Nobel Powder	Maximum Load		Suggested Load	
			Charge (Grains)	Muzzle Velocity (ft/sec)	Charge (Grains)	Muzzle Velocity (ft/sec)
	235 grain Metal Covered	Rifle Powder No. 0 Rifle Powder No. 1 Rifle Powder No. 2	85.5 75.5 71.5	2950 2890 2860	83.0 73.0 69.0	2825 2770 2730
	250 grain Metal Covered	Rifle Powder No. 0 Rifle Powder No. 1 Rifle Powder No. 2	94.0 72.0 68.0	2850 2710 2705	80.0 68.0 65.0	2665 2515 2570
	270 grain Metal Covered	Rifle Powder No. 0 Rifle Powder No. 1 Rifle Powder No. 2	83.0 71.5 66.0	2830 2685 2670	79.0 68.0 62.0	2645 2500 2490
	285 grain Metal Covered	Rifle Powder No. 0 Rifle Powder No. 1 Rifle Powder No. 2	83.0 71.0 66.0	2795 2640 2635	79.0 67.0 62.0	2600 2450 2465
	300 grain Metal Covered	Rifle Powder No. 0 Rifle Powder No. 1 Rifle Powder No. 2	80.0 70.0 65.5	2570 2495 2430	75.0 65.0 60.5	2340 2240 2200
	480 grain Metal Covered	Rifle Powder No. 1 Rifle Powder No. 2 Rifle Powder No. 3	72.0 70.0 61.0	2175 2205 2235	67.0 65.0 56.0	1965 1970 2000
	500 grain Metal Covered	Rifle Powder No. 1 Rifle Powder No. 2	7.0 70.0	2064 2090	68.0 65.0	1870 1940
	510 grain Metal Covered	Rifle Powder No. 1 Rifle Powder No. 2	71.5 69.5	2050 2070	66.0 64.5	1830 1855
						

REVOLVER AND PISTOL POWDERS

	Bullet Weight Type	Recommended Nobel Powder	Maximum Load		Suggested Load	
			Charge (Grains)	Muzzle Velocity (ft/sec)	Charge (Grains)	Muzzle Velocity (ft/sec)
.25 Auto Colt Pistol (6.35 mm)	50 grain Metal Covered	Pistol Powder No. 3	1.2	820	0.8	700
7.65 mm Parabellum (.30 Luger)	92 grain Metal Covered	Pistol Powder No. 2	5.4	1175	4.9	1100
		Pistol Powder No. 3	4.0	1185	3.5	1110
	93 grain Cast Plain Base	Pistol Powder No. 2	5.2	1200	4.7	1125
		Pistol Powder No. 3	3.8	1195	3.4	1135
7.65 mm Browning .32 Auto Colt Pistol	72 grain Metal Covered	Pistol Powder No. 2	3.5	960	3.0	910
		Pistol Powder No. 3	2.3	950	2.0	920
	77 grain Cast Plain Base	Pistol Powder No. 2	3.4	945	2.9	910
		Pistol Powder No. 3	2.2	935	1.9	920
.32 Smith & Wesson	85 grain Cast Plain Base	Pistol Powder No. 2	1.8	630	1.5	585
		Pistol Powder No. 3	1.4	630	1.2	605
.32 Smith & Wesson Long	98 grain Cast Plain Base	Pistol Powder No. 2	3.5	750	3.0	675
		Pistol Powder No. 3	2.3	800	1.8	725
	105 grain Cast Plain Base	Pistol Powder No. 2	2.9	685	2.5	625
		Pistol Powder No. 3	2.1	745	1.8	700

REVOLVER AND PISTOL POWDERS - continued

	Bullet Weight Type	Recommended Nobel Powder	Maximum Load		Suggested Load	
			Charge (Grains)	Muzzle Velocity (ft/sec)	Charge (Grains)	Muzzle Velocity (ft/sec)
.32/20 Winchester Revolver	80 grain Cast Plain Base	Pistol Powder No. 2	5.0	1020	4.0	870
		Pistol Powder No. 3	3.6	1080	2.5	930
	80 grain Metal Covered	Pistol Powder No. 2	7.1	1235	5.8	1050
		Pistol Powder No. 3	4.2	1180	2.9	1010
	90 grain Cast Plain Base	Pistol Powder No. 2	5.2	1010	4.2	860
		Pistol Powder No. 3	3.5	1050	2.5	900
	105 grain Cast Hollow Point	Pistol Powder No. 2	5.4	1000	4.4	850
		Pistol Powder No. 3	3.4	980	2.4	830
	115 grain Metal Covered	Pistol Powder No. 2	7.1	870	6.1	720
		Pistol Powder No. 3	3.0	860	2.0	710
	115 grain Cast Plain Base	Pistol Powder No. 2	6.4	900	5.4	750
		Pistol Powder No. 3	3.1	840	2.1	690
	120 grain Cast Plain Base	Pistol Powder No. 2	5.0	900	4.0	750
		Pistol Powder No. 3	3.0	840	2.0	690
9 mm Parabellum (Luger)	115 grain Metal Covered	Pistol Powder No. 2	5.0	1050	4.0	960
		Pistol Powder No. 3	4.0	1060	3.5	990
	124 grain Metal Covered	Pistol Powder No. 2	5.0	1030	4.1	940
		Pistol Powder No. 3	3.9	1050	3.4	990
	125 grain Cast Plain Base	Pistol Powder No. 2	5.2	1050	4.2	950
		Pistol Powder No. 3	3.9	1060	3.4	1000

REVOLVER AND PISTOL POWDERS—continued

	Bullet Weight Type	Recommended Nobel Powder	Maximum Load		Suggested Load	
			Charge (Grains)	Muzzle Velocity (ft/sec)	Charge (Grains)	Muzzle Velocity (ft/sec)
.357 Magnum Revolver	148 grain	Pistol Powder No. 2	4.5	870	3.5	690
	Cast Plain Base	Pistol Powder No. 3	3.9	960	2.9	735
	150 grain	Revolver Powder No. 1	16.0	1505	12.2	1200
	Cast Gas Check	Pistol Powder No. 2	4.6	845	3.4	675
		Pistol Powder No. 3	3.9	935	3.0	730
	158 grain	Revolver Powder No. 1	15.8	1480	12.0	1180
	Cast Gas Check	Pistol Powder No. 2	4.6	830	3.4	640
		Pistol Powder No. 3	3.9	910	3.0	715
	160 grain	Revolver Powder No. 1	15.0	1365	12.3	1200
	Cast Plain Base	Pistol Powder No. 2	4.6	820	3.4	620
		Pistol Powder No. 3	3.8	870	2.9	710
	165 grain	Revolver Powder No. 1	14.0	1275	12.2	1170
.38 Auto Colt Pistol	Cast Plain Base	Pistol Powder No. 2	4.3	830	3.5	705
		Pistol Powder No. 3	3.6	850	2.9	725
	125 grain	Pistol Powder No. 2	5.2	1055	4.4	950
	Cast Plain Base	Pistol Powder No. 3	4.6	1140	4.0	1060
.38 Smith & Wesson	130 grain	Pistol Powder No. 2	5.3	1040	4.7	960
	Cast Plain Base	Pistol Powder No. 3	4.5	1170	4.0	1105
	135 grain	Pistol Powder No. 2	3.9	740	3.0	650
	Cast Plain Base	Pistol Powder No. 3	3.0	760	2.1	670
.38 /40 Winchester Revolver	145 grain	Pistol Powder No. 2	4.0	770	3.3	730
	Cast Plain Base	Pistol Powder No. 3	3.0	795	2.0	700
	150 grain	Pistol Powder No. 2	3.9	750	3.3	700
	Cast Plain Base	Pistol Powder No. 3	3.0	775	2.0	690
.38 /40 Winchester Revolver	180 grain	Pistol Powder No. 2	8.0	1000	7.0	850
	Cast Plain Base	Pistol Powder No. 3	5.9	1010	4.0	820
	200 grain	Pistol Powder No. 2	7.0	950	6.2	830
	Cast Plain Base	Pistol Powder No. 3	5.2	900	4.6	840

REVOLVER AND PISTOL POWDERS—continued

	Bullet Weight Type	Recommended Nobel Powder	Maximum Load		Suggested Load	
			Charge (Grains)	Muzzle Velocity (ft/sec)	Charge (Grains)	Muzzle Velocity (ft/sec)
.38 Special	77 grain	Pistol Powder No. 3	2.0	630	1.5	580
	Cast Plain Base					
	115 grain	Pistol Powder No. 2	6.0	1025	4.2	760
	Cast Plain Base	Pistol Powder No. 3	4.3	1020	2.3	760
	148 grain	Revolver Powder No. 1	13.5	1365	9.5	960
	Cast Plain Base	Pistol Powder No. 2	5.4	860	4.0	760
		Pistol Powder No. 3	3.8	865	2.8	750
	148 grain	Revolver Powder No. 1	13.5	1370	9.3	965
	Hollow Base	Pistol Powder No. 2	5.5	865	4.0	745
	Wadcutter	Pistol Powder No. 3	3.7	885	2.8	795
	150 grain	Revolver Powder No. 1	13.6	1365	9.4	940
	Cast Gas Check	Pistol Powder No. 2	5.4	890	4.0	760
		Pistol Powder No. 3	3.8	890	2.9	785
	158 grain	Revolver Powder No. 1	12.5	1255	9.6	930
	Cast Gas Check	Pistol Powder No. 2	5.3	870	4.1	745
		Pistol Powder No. 3	3.7	850	2.8	725
	165 grain	Revolver Powder No. 1	10.5	1040	9.5	900
	Cast Plain Base	Pistol Powder No. 2	5.5	915	4.3	665
		Pistol Powder No. 3	3.7	915	2.4	650
CAUTION: Use Revolver Powder No. 1 in heavy frame guns only.						
.380 Auto Colt Pistol 9 mm Browning Short	95 grain	Pistol Powder No. 2	3.8	920	2.8	770
	Cast Plain Base	Pistol Powder No. 3	2.6	900	1.9	795
	95 grain	Pistol Powder No. 2	3.6	915	2.8	795
	Metall Covered	Pistol Powder No. 3	2.9	930	2.3	840

REVOLVER AND PISTOL POWDERS—continued

	Bullet Weight Type	Recommended Nobel Powder	Maximum Load		Suggested Load	
			Charge (Grains)	Muzzle Velocity (ft/sec)	Charge (Grains)	Muzzle Velocity (ft/sec)
.41 Long Colt	196 grain Cast Heel Base	Pistol Powder No. 2	4.6	740	4.1	690
		Pistol Powder No. 3	3.4	750	3.1	710
	200 grain Cast Hollow Base	Pistol Powder No. 2	4.6	730	4.2	690
		Pistol Powder No. 3	3.5	745	3.1	700
.44 Smith & Wesson Russian	175 grain Cast Plain Base	Pistol Powder No. 2	6.5	915	4.5	750
		Pistol Powder No. 3	5.4	940	3.4	740
	205 grain Cast Plain Base	Pistol Powder No. 2	6.4	880	5.4	700
		Pistol Powder No. 3	4.9	890	2.9	710
	246 grain Cast Plain Base	Pistol Powder No. 2	5.9	715	4.4	590
		Pistol Powder No. 3	5.0	790	3.5	650
	250 grain Cast Plain Base	Pistol Powder No. 2	5.9	710	4.4	600
		Pistol Powder No. 3	5.0	780	3.5	665
.44 Special	180 grain Cast Plain Base	Pistol Powder No. 2	7.5	1070	6.0	940
		Pistol Powder No. 3	6.7	1060	5.0	920
	205 grain Cast Gas Check	Pistol Powder No. 2	7.4	965	5.6	785
		Pistol Powder No. 3	6.4	1025	4.6	815
	215 grain Cast Gas Check	Pistol Powder No. 2	6.9	925	5.6	780
		Pistol Powder No. 3	6.0	985	4.6	810
	255 grain Cast Gas Check	Pistol Powder No. 2	6.3	825	4.7	700
		Pistol Powder No. 3	5.4	860	3.5	635
	255 grain Cast Plain Base	Pistol Powder No. 2	6.5	820	4.3	680
		Pistol Powder No. 3	5.4	860	3.2	600

REVOLVER AND PISTOL POWDERS—continued

	Bullet Weight Type	Recommended Nobel Powder	Maximum Load		Suggested Load	
			Charge (Grains)	Muzzle Velocity (ft/sec)	Charge (Grains)	Muzzle Velocity (ft/sec)
.44 Remington Magnum	180 grain Cast Plain Base	Pistol Powder No. 2	7.5	1240	5.5	1040
		Pistol Powder No. 3	6.5	1260	4.5	1060
	205 grain Cast Gas Check	Revolver Powder No. 1	26.5	1980	18.5	1340
		Pistol Powder No. 2	9.0	1200	5.5	1000
		Pistol Powder No. 3	8.0	1215	4.5	1015
	215 grain Cast Gas Check	Revolver Powder No. 1	22.5	1830	15.0	1270
		Pistol Powder No. 2	9.0	1160	6.0	930
		Pistol Powder No. 3	8.0	1180	5.0	950
	255 grain Cast Gas Check	Revolver Powder No. 1	23.0	1618	16.5	1240
		Pistol Powder No. 2	9.0	1125	5.5	925
		Pistol Powder No. 3	8.0	1090	5.0	880
	255 grain Cast Plain Base	Revolver Powder No. 1	23.0	1618	16.5	1248
		Pistol Powder No. 2	9.3	1113	6.3	903
		Pistol Powder No. 3	8.0	1092	5.0	882

REVOLVER AND PISTOL POWDERS - continued

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	Bullet Weight Type	Recommended Nobel Powder	Maximum Load		Suggested Load	
			Charge (Grains)	Muzzle Velocity (ft. sec)	Charge (Grains)	Muzzle Velocity (ft. sec)
.44/40 Winchester Revolver	140 grain Metal Covered	Pistol Powder No. 2	11.2	1050	10.4	930
		Pistol Powder No. 3	9.0	1190	8.4	1100
	175 grain Cast Plain Base	Pistol Powder No. 2	9.0	1060	8.0	950
		Pistol Powder No. 3	8.0	1100	7.0	950
	186 grain Cast Hollow Point	Pistol Powder No. 2	9.0	1050	8.0	940
		Pistol Powder No. 3	8.0	1100	6.4	965
	200 grain Metal Covered	Pistol Powder No. 2	8.6	985	8.1	910
		Pistol Powder No. 3	6.8	950	6.3	880
	205 grain Cast Plain Base	Pistol Powder No. 2	8.5	990	7.9	900
		Pistol Powder No. 3	6.5	940	6.0	865
	215 grain Cast Plain Base	Pistol Powder No. 2	8.5	1010	7.5	880
		Pistol Powder No. 3	6.5	900	5.4	825
	240 grain Cast Plain Base	Pistol Powder No. 2	8.3	900	7.5	780
		Pistol Powder No. 3	6.3	840	5.7	750
.45 Auto Colt Pistol	250 grain Cast Plain Base	Pistol Powder No. 2	8.1	790	7.5	685
		Pistol Powder No. 3	6.3	860	5.7	770
	185 grain Cast Plain Base	Pistol Powder No. 2	5.0	805	4.5	745
		Pistol Powder No. 3	4.0	720	3.1	630
	200 grain Cast Plain Base	Pistol Powder No. 2	7.1	900	4.5	700
		Pistol Powder No. 3	4.7	810	3.5	695
	230 grain Cast Plain Base	Pistol Powder No. 2	5.6	830	5.0	770
		Pistol Powder No. 3	4.5	775	4.1	730
	230 grain Metal Covered	Pistol Powder No. 2	6.5	835	5.9	775
		Pistol Powder No. 3	4.9	730	4.0	640

REVOLVER AND PISTOL POWDERS - continued

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	Bullet Weight Type	Recommended Nobel Powder	Maximum Load		Suggested Load	
			Charge (Grains)	Muzzle Velocity (ft. sec)	Charge (Grains)	Muzzle Velocity (ft. sec)
.45 Colt Revolver	170 grain Cast Plain Base	Pistol Powder No. 2	11.1	1150	7.5	855
		Pistol Powder No. 3	7.8	1120	6.1	910
	235 grain Cast Plain Base	Pistol Powder No. 2	9.5	890	7.6	785
		Pistol Powder No. 3	6.7	940	5.1	780
	250 grain Cast Plain Base	Pistol Powder No. 2	8.0	850	6.6	710
		Pistol Powder No. 3	6.1	900	5.3	805
	260 grain Cast Plain Base	Pistol Powder No. 2	8.0	855	6.6	705
		Pistol Powder No. 3	6.3	910	5.1	750
.455 Colt or Webley Revolver	190 grain Cast Plain Base	Pistol Powder No. 2	6.0	795	5.5	740
		Pistol Powder No. 3	4.1	780	3.5	670
	235 grain Cast Plain Base	Pistol Powder No. 2	5.8	790	5.2	700
		Pistol Powder No. 3	4.0	765	3.5	690
	250 grain Cast Plain Base	Pistol Powder No. 2	5.4	690	4.2	570
		Pistol Powder No. 3	4.0	745	2.7	615
	260 grain Cast Plain Base	Pistol Powder No. 2	5.4	665	4.1	535
		Pistol Powder No. 3	4.1	715	2.6	565
	265 grain Cast Plain Base	Pistol Powder No. 2	5.4	630	4.9	555
		Pistol Powder No. 3	3.3	630	2.8	570
.455 Webley Self-Loading	224 grain Metal Covered	Pistol Powder No. 2	6.1	680	5.9	650
		Pistol Powder No. 3	4.2	670	4.0	640