

Smokeless Powder

Burn Rate	Mfg / Powder	VMD (cc/gr)	Density (gr/cc)	Comments
1	Norma R-1			
2	Vihta Vuori N310	.1214	8.237	
3	Hodgdon Titewad	.1300	7.690	Economical 12 gauge loads
4	Accurate Nitro 100	.1349	7.413	12 ga, low pressure & low load density handgun loads
5	Alliant Bullseye	.1064	9.398	Handgun, light 12 gauge target loads
6	Accurate Solo 1000	.1331	7.515	12 ga, .38, .45 ACP, very clean burning
7	Scot Red Diamond			
8	Alliant Red Dot	.1413	7.077	Shotgun powder with small pistol loads
9	Alliant Promo			Economical, clean shotgun powder, pistol loads too
10	Hodgdon Titegroup	.0848	11.799	Uniform ignition, low charge wt, clean pistol powder
11	Accurate No. 2	.0838	11.933	Developed for .38 Special, economical handgun loads
12	Alliant American Select	.1341	7.455	12 gauge target loads, cowboy action handgun, clean
13	Winchester AA Plus	.1296	7.715	Discontinued
14	Hodgdon Clays	.1462	6.840	Clean & accurate 12 ga, .45 ACP, .38 Special
15	Vihta Vuori N320	.1210	8.264	
16	Ramshot Competition			Clean, fluffy powder for 12 ga clay & cowboy action
17	Scot Royal D			
18	Winchester WST			Target shotshell, standard velocity handgun, .45 ACP
19	Hodgdon HP38	.0926	10.799	Economical low velocity .38 /.44 Special, .45 ACP
20	Winchester 452AA	.1171	8.540	Discontinued
21	Scot 453			
22	Winchester 231	.0931	10.741	9mm, .38 Special, .45 ACP
23	Ramshot Zip	.0831	12.034	9mm, 38 Special, .40 S&W, .45 ACP
24	IMR 700X	.1343	7.446	12 ga, 16 ga, 38 Special, .45 ACP
25	Alliant Green Dot	.1262	7.924	Medium 12 ga & 16 ga, some handgun loads
26	Hodgdon International	.1266	7.899	12 ga medium to heavy 1 1/8 oz, some 20 ga
27	Vihta Vuori N330	.1079	9.268	
28	IMR PB	.1205	8.299	10-28 ga, .40 S&W, .45 ACP, meters well
29	Accurate No. 5	.0623	16.051	Developed for .45 ACP, used in other handgun loads
30	Scot Pearl	.1333	7.502	
31	Winchester 473AA	.0975	10.256	Discontinued
32	Hodgdon HS-5			Discontinued
33	Winchester WSL	.0847	11.806	Discontinued
34	Alliant Unique	.1092	9.158	12 ga to 28 ga, most small & medium handgun loads
35	Hodgdon Universal	.1099	9.099	Clean, economical, most pistol & shotgun loads
36	Alliant Power Pistol	.0889	11.247	High performance 9mm, .40 S&W, 10mm
37	IMR SR7625	.1046	9.560	10-28 ga, various handgun loads
38	Hodgdon HS-6	.0712	14.045	9mm, .40 S&W, 10mm, heavy shotshell loads
39	Ramshot Silhouette	.0810	12.346	9mm, .38 Super, .357 Sig, 10mm
40	Winchester WAP	.0810	12.350	Discontinued
41	Vihta Vuori N340	.1066	9.381	
42	Winchester 540	.0683	14.641	Discontinued
43	Alliant Herco	.1122	8.913	Heavy shotgun loads 10 ga to 28 ga, heavy handguns
44	Winchester WSF	.0840	11.905	20 ga, 12 ga 1 1/8 & 1 1/4, 9mm, .38 Super, .40 S&W
45	IMR SR4756	.1100	9.091	10-28 ga, larger handguns, meters well
46	Scot Solo 1250	.1220	8.197	
47	Vihta Vuori 3N37	.0913	10.953	
48	IMR 800X	.1071	9.337	10-28 ga, magnum handgun, large flake powder
49	Accurate No. 7	.0653	15.314	Lower power .357, .41 and .44 magnum, dirty
50	Hodgdon Longshot	.0824	12.130	Shotgun powder, also excellent for pistol carbines
51	Scot Solo 1500	.1099	9.099	
52	Ramshot True Blue	.0693	14.430	9mm, .38 Special, .357 magnum, .45 ACP
53	Vihta Vuori N350	.0977	10.235	

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54	Vihta Vuori 3N38			
55	Hodgdon HS-7	.0680	14.706	Discontinued
56	Alliant Blue Dot	.0865	11.561	Magnum shotgun & handgun loads
57	Winchester 571	.0680	14.706	Discontinued
58	Vihta Vuori N105	.0900	11.110	
59	Accurate No. 9	.0657	15.221	.44 magnum, also smaller magnum pistols, .410
60	Ramshot Enforcer	.0689	14.514	.357 magnum, .44 magnum, 454 Casull, 480 Ruger
61	Scot 4100			
62	Alliant Steel	.1063	9.407	10 ga & 12 ga steel loads, magnum shotshell loads
63	Alliant 2400	.0742	13.477	Magnum handgun, some rifle & shotshell loads
64	Vihta Vuori N110	.0833	12.005	
65	Hodgdon Lil Gun	.0678	14.749	.410 shotshells, also magnum pistol & .22 Hornet
66	Norma R123			
67	Hodgdon H110	.0656	15.256	Accurate, powerful .44 Magnum, 454 Casull, & .410
68	Winchester 296	.0656	15.244	.357 magnum, .44 magnum, .410 shotshell
69	IMR SR4759	.0993	10.070	Bulky powder for reduced rifle loads
70	Vihta Vuori N120	.0776	12.887	
71	IMR 4227	.0769	13.004	Magnum pistol, .410, .22 Hornet, .221 Fireball
72	Accurate 5744	.0752	13.307	Reduced loads, low pressure rifle, .50 Sharps
73	Alliant 410			.410 shotshell loads, clean burning
74	Vihta Vuori N130	.0754	13.263	
75	Winchester 680	.0655	15.267	Discontinued
76	Norma 200	.0677	14.771	
77	Accurate 1680	.0655	15.267	7.62X39 & .22 Hornet, also .222 & lighter .223
78	Vihta Vuori N133	.0770	12.987	
79	Hodgdon H4198	.0750	13.333	.222 Remington, 444 Marlin, 7.62X39
80	IMR 4198	.0792	12.626	.222 Remington, .221 Fireball, .45-70
81	Scot Brig 4197			
82	Accurate 2015	.0730	13.699	Bench rest, PPC, .22 Hornet to .458 Win magnum
83	Scot Brig 3032			
84	Alliant Reloder 7	.0728	13.736	Light rifle loads, silhouette loads
85	IMR 3031	.0762	13.123	.223, .308, .30-30, etc.
86	Hodgdon Benchmark	.0715	13.992	Bench rest 6mm, .223, light .308 bullets, meters well
87	Norma 201	.0691	14.472	
88	Scot Brig 322			
89	Hodgdon H322	.0725	13.793	Bench rest 6mm PPC, .223, 7mm TCU, meters well
90	Ramshot X-Terminator	.0658	15.198	.222 Remington, .223, .22 bench rest
91	Accurate 2230	.0657	15.221	.223 Remington. formerly MR-223
92	Winchester 748	.0655	15.267	.223 through .308, low temp for longer barrel life
93	Alliant Reloder 10X	.0746	13.412	.223 through light bullet .308, bench rest
94	Hodgdon BLC-2	.0645	15.504	.223 through .308, bench rest, spherical powder
95	Accurate 2460	.0656	15.244	.308 Winchester, various 7mm class
96	Hodgdon H335	.0645	15.504	.222 Remington, .223, etc.
97	Ramshot TAC	.0658	15.198	.223 with heavy 80 grain bullets, .308, etc.
98	Hodgdon H4895	.0728	13.736	Versatile, .17 Remington to .458 Winchester
99	Accurate 2495	.0748	13.362	Cast bullets in .45/70 Government
100	Alliant Reloder 12	.0691	14.472	Discontinued
101	IMR 4895	.0728	13.736	.30-06, .17 Remington through .375 H&H magnum
102	Scot Brig 4065			
103	Vihta Vuori N135	.0777	12.870	
104	Hodgdon Varget	.0731	13.680	.223, .308, .30-06, etc. Stick powder meters poorly
105	IMR 4064	.0745	13.423	Versatile, most rifle loads, .223, .308, etc.
106	Accurate 4064	.0755	13.250	.30-06, similar to IMR 4064, short cut extruded
107	Accurate 2520	.0683	14.650	.308 and similar medium capacity cases
108	IMR 4320	.0716	13.966	.223, .22-250, .250 Savage, .300 Savage
109	Norma 203	.0691	14.472	

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110	Vihta Vuori N140	.0733	13.643	
111	Vihta Vuori N540	.0701	14.263	
112	Accurate 2700	.0685	14.605	.22-250, .220 Swift, heavier bullets in other calibers
113	Ramshot Big Game	.0682	14.663	.22-250, 6mm, 7mm-08, .270, .30-06
114	Alliant Reloder 15	.0706	14.164	Medium rifle loads, silhouette loads
115	Hodgdon H380	.0691	14.472	.22-250, .220 Swift, .243, .257 Roberts
116	Winchester 760	.0666	15.015	.30-06, 7mm-08
117	Scot Brig 4351			
118	Hodgdon H414	.0661	15.129	.30-06, .22-250 through .375 H&H, meters well
119	Vihta Vuori N150	.0746	13.405	
120	Vihta Vuori N550	.0692	14.445	
121	Accurate 4350	.0740	13.514	.243, .270, also heavy loads in other calibers
122	IMR 4350	.0735	13.605	Rifle short magnums with light to medium wt bullets
123	Hodgdon H4350	.0725	13.791	Magnum rifles with light to medium bullets
124	Norma 204	.0677	14.771	
125	Ramshot Hunter	.0682	14.663	.270, .223 WSSM, 7mm WSSM, 270 WSM, 300 WSM
126	Alliant Reloder 19	.0706	14.164	Magnum rifle loads
127	Vihta Vuori N160	.0734	13.624	
128	Vihta Vuori N560	.0690	14.493	
129	IMR 4831	.0735	13.605	Rifle medium magnums with heavier bullets
130	Scot Brig 4831			
131	Norma 205	.0672	14.881	
132	Accurate XMR 3100	.0748	13.369	.243, 7mm Rem magnum, other large magnums
133	Winchester WMR	.0718	13.926	Discontinued
134	Hodgdon H4831	.0725	13.793	.270 Winchester, .25-06 Remington, .300 Magnums
135	Norma MRP			
136	Alliant Reloder 22	.0697	14.347	Magnum rifle loads
137	Winchester 785			Discontinued
138	Hodgdon H450	.0653	15.314	Discontinued
139	Accurate Mag Pro	.0663	15.076	Short action magnum rifles, magnums, meters well
140	Vihta Vuori N165	.0712	14.045	
141	Winchester WXR			Discontinued
142	IMR 7828	.0725	13.793	Large magnum rifle loads, 7mm RUM, .300 RUM
143	Accurate 8700	.0688	14.535	.270 / .300 Weatherby magnums, large magnums
144	Hodgdon H1000	.0713	14.025	7mm magnums, heavier bullets in 6mm, .270 Win
145	Ramshot Magnum	.0658	15.198	.300 WBY, .300 Win Mag, 300 RUM
146	Alliant Reloder 25	.0707	14.152	Large magnum rifle loads
147	Hodgdon Retumbo			Large magnum rifle loads, 7mm RUM, .300 RUM
148	Hodgdon H870	.0686	14.577	Discontinued
149	Vihta Vuori N170	.0713	14.019	
150	Vihta Vuori 24N41			
151	Hodgdon 50 BMG	.0694	14.401	Standard for .50 BMG, clean, temperature stability
152	Vihta Vuori 20N29			

The relative burn rate data is approximate, and varies according to the source. Do not use burn rate data to calculate comparable loads using a different powder. The relative burn rate data is only intended as a rough starting point for load development, and the user assumes all risk for the data.

Reasonable caution has been made to ensure that the data is accurate but no warranties of accuracy are offered, nor should they be inferred.

Lot-to-lot variation will alter burn rate and density.

Comments are derived from user comments as well as manufacturer's claims, and are subjective.

<http://www.accuratepowder.com>

<http://www.alliantpowder.com>

<http://www.hodgdon.com>

<http://www.imrpowder.com>

http://www.norma.cc/htm_files/powders.htm

<http://www.ramshot.com>

<http://www.vihtavuori-lapua.com>

<http://www.wwpowder.com>

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