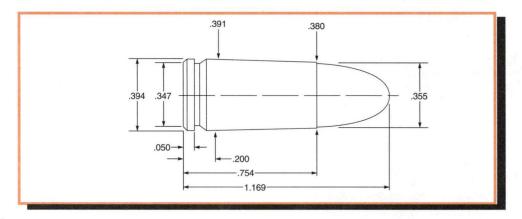
9mm Luger (9mm Parabellum) (9 x 19mm)



Comments:

The most common diameter for this cartridge is 0.354 inch. However, the industry standard has recently been established at 0.355 inch. All barrels of 0.354" to 0.356" are correctly matched with a bullet diameter of 0.355 inch. Barrels with larger groove diameters will often provide poor accuracy with a 0.355" bullet but chamber restrictions prevent the safe use of larger diameter bullets.

This cartridge headspaces from the mouth and therefore cases trimming must be uniform and accurate. Do not reduce cases below the trim-to length. Additionally do not roll crimp bullets as this will prevent the case from properly headspacing on its mouth. A modest taper crimp may be employed if found

Test Components:

lest Components:
Cases
Trim-to Length
Primers
Primer Size
Lyman Shell Holder
Jacketed Bullets Used Sierra JHP #8100, 90 gr.
Sierra FMJ #8105, 95 gr.
Hornady FMJ #35527, 100 gr.
Hornady HP/XTP #35540, 115 gr.
Sierra JHP #8125, 125 gr.
Sierra FMJ #8345, 130 gr.
Speer TMJ #4006, 147 gr.

		90 gr. Jacketed HP 1.010" OAL								
Powder	Sugg Starting Grains	Velocity fps	Pressure C.U.P.	Max Load Grains	Velocity fps	Pressure C.U.P.				
Clays	3.0	982	22,000	3.7	1213	30,800				
Titegroup	4.4	1170	24,100	4.9	1305	31,700				
Bullseye	4.1	971	21,600	5.2	1376	30,900				
700X	3.6	1027	25,000	4.5	1292	30,500				
231	4.0	1156	20,600	5.2	1411	30,400				
AA#5	5.2	835	16,600	6.5	1347	30,800				
Unique	5.0	1089	26,900	6.3	1343	32,600				
Power Pistol	6.3	1216	23,800	7.0	1331	30,400				
N340	5.2	1161	24,400	5.8	1300	31,000				
SR-4756	5.0	1028	24,000	6.2	1352	31,900				
HS-6	5.9	858	20,200	7.4	1333	31,800				
Blue Dot	<i>7</i> .0	1072	24,800	8.9	1341	31,500				

necessary.

The most popular cast bullet for this round has been #356402. However, there are many good choices based upon intended use. Bullet #356637 (147 gr.) closely duplicates the U.S. Military subsonic bullet design and has proven to be very accurate.

Alliants Bullseye, Winchester 231, and Alliants Unique are very good popular propellants for this cartridge.

With any handgun cartridge, it is important not to seat bullets to a shorter length than specified in the data. This is especially important with 9mm loads. Pressures can be raised dramatically with deep seating.

Cast Bullets Used	(sized to .356" dia)
*gas check bullet	#356242, 90 gr.
	#356242, 120 gr.
	#356402, 120 gr.
	*#358093, 125 gr.
	#356637 147 gr

Test Specifications: (Velocity & Pressure)

Firearm Used											J.	Jr	ni	VE	er	S	al	F	26	eC	ei	ve	er
Barrel Length																						.4	"
Groove Dia.																				.3	35	5	11

		95 gr. 1.005"				BC: .107 SD: .108
Powder	Sugg Starting Grains	Velocity fps	Pressure C.U.P.	Max Load Grains	Velocity fps	Pressure C.U.P.
Titegroup	4.3	1150	25,500	4.8	1264	30,800
Bullseye	3.5	893	19,400	5.0	1307	30,600
700X	3.2	893	19,600	4.5	1301	31,400
231	3.7	1068	19,200	5.1	1374	32,400
AA#5	5.2	915	18,100	6.5	1394	31,000
Unique	4.5	1007	22,000	5.8	1399	32,000
Power Pistol	6.2	1214	26,000	6.9	1337	31,800
Universal	4.7	939	15,600	5.3	1286	28,800
N340	5.1	1162	25,200	5.7	1291	32,400
SR-4756	4.5	983	20,700	5.8	1306	32,700
HS-6	5.8	952	20,100	7.0	1315	29,600
Blue Dot	6.8	1101	22,900	8.9+	1457	32,300

Loads shown in shaded panels are maximum. Loads shown in bold designate potentially most accurate load.

Note:

9mm Luger (9mm Parabellum) (9 x 19mm)

)	100 gr 1.105"			BC: .115 SD: .113		
Powder	Sugg Starting Grains	Velocity fps	Pressure C.U.P.	Max Load Grains	Velocity fps	Pressure C.U.P.	
Titegroup	4.2	1131	25,800	4.7	1222	30,200	
Bullseye	4.0	976	22,000	5.0	1263	31,700	
700X	3.5	870	20,200	4.4	1171	31,500	
231	4.5	1061	22,900	5.0	1162	27,200	
Unique	4.5	931	20,000	5.6	1256	31,400	
Power Pistol	6.1	1143	24,100	6.8	1310	32,200	
N340	5.1	1133	24,000	5.7	1255	31,000	
SR-4756	4.5	681	13,000	5.7	1225	30,400	
HS-6	6.0	801	15,900	7.4	1206	30,100	
AA#7	8.0	884	18,600	9.6	1271	31,000	
Blue Dot	6.5	973	19,800	7.8	1252	30,200	

		115 gr. Jacketed HP 1.090" OAL							
Powder	Sugg Starting Grains	Velocity fps	Pressure C.U.P.	Max Load Grains	Velocity fps	Pressure C.U.P.			
Titegroup	4.0	1046	27,100	4.5	1119	31,400			
Bullseye	3.5	945	18,700	4.8	1184	31,700			
700X	3.1	918	20,200	4.5	1171	31,700			
231	3.5	959	20,700	4.9	1253	32,100			
Unique	4.4	996	20,600	5.8	1233	30,700			
Power Pisto	5.9	1102	27,100	6.5	1212	31,500			
N340	4.5	999	24,300	5.0	1124	30,500			
SR-4756	4.5	946	18,600	6.2+	1147	28,100			
HS-6	5.7	956	17,400	7.2	1193	30,400			
AA#7	6.8	871	20,700	8.5	1158	30,400			
Blue Dot	6.8	1110	27,300	7.6+	1189	32,300			

		125 gr 1.075"	. Jackete OAL	ed HP		BC: .137 SD: .142
Powder	Sugg Starting Grains	Velocity fps	Pressure C.U.P.	Max Load Grains	Velocity fps	Pressure C.U.P.
Clays	3.1	872	26,700	3.6	960	31,700
Titegroup	3.8	962	26,100	4.2	1045	31,200
Bullseye	3.9	979	27,900	4.5	1073	30,100
700X	3.8	930	22,900	4.2	1022	31,400
231	3.9	960	27,000	4.4	1043	32,000
AA#5	5.4	955	24,200	6.1	1078	31,400
Unique	4.5	997	27,300	5.0	1078	30,700
Power Pistol	5.1	979	23,100	5.7	1107	31,300
Universal	4.0	880	17,400	4.5	1042	29,300
N340	4.0	937	21,900	4.6	1060	31,200
HS-6	5.8	949	23,800	6.6	1080	30,400
AA#7	7.0	1008	26,700	7.8	1119	31,600
Blue Dot	6.3	1049	27,400	7.1+	1163	32,400

		130 gr 1.160"				BC: .160 SD: .147
Powder	Sugg Starting Grains	Velocity fps	Pressure C.U.P.	Max Load Grains	Velocity fps	Pressure C.U.P.
Clays	2.5	690	19,200	3.6	933	31,500
Titegroup	3.8	936	24,400	4.2	1035	30,300
Bullseye	3.6	780	21,500	4.5	1002	31,000
700X	3.0	803	21,700	4.0	991	32,500
231	3.9	949	25,300	4.4	1039	30,600
Unique	3.5	710	18,200	4.8	1014	31,200
Power Pistol	5.1	1010	25,300	5.7	1115	30,700
Universal	4.0	904	18,300	4.5	1045	28,700
N340	4.1	941	23,300	4.6	1067	32,000
HS-6	5.0	752	18,000	6.5	1112	32,500
AA#7	6.5	833	20,500	8.2	1119	32,600
Blue Dot	5.4	852	21,700	6.8	1114	31,700

)	147 gr. TMJ 1.115" OAL							
Powder	Sugg Starting Grains	Velocity fps	Pressure C.U.P.	Max Load Grains	Velocity fps	Pressure C.U.P.			
Titegroup	3.2	914	27,700	3.6	983	31,900			
Bullseye	3.4	871	23,500	3.9	971	29,900			
700X	2.8	766	23,300	3.6	949	30,700			
231	3.5	855	23,000	4.1	957	27,500			
Unique	3.7	873	20,500	4.5	1039	29,100			
Power Pistol	4.5	960	26,900	5.0	1043	32,400			
Universal	3.1	778	19,000	3.5	924	29,200			
N340	3.9	935	28,500	4.4	1012	32,200			
WSF	3.5	790	21,500	4.4	983	30,800			
HS-6	4.8	866	22,000	5.8	1046	30,600			
AA#7	6.0	852	20,200	7.2	1014	29,000			
Blue Dot	5.3	864	19,000	6.6	1052	28,600			

		BC: .105 SD: .101				
Powder	Sugg Starting Grains	Velocity fps	Pressure C.U.P.	Max Load Grains	Velocity fps	Pressure C.U.P.
Titegroup	4.3	1215	26,100	4.8	1299	30,600
Bullseye	4.0	1060	19,800	5.2	1315	32,000
700X	4.1	1125	22,800	5.1	1285	31,000
Red Dot	4.1	1120	22,800	5.5	1340	32,500
231	3.8	1093	20,500	5.1	1455	32,100
SR-7625	5.0	1180	23,400	5.9	1310	30,500
PB	4.8	1115	19,800	6.0	1360	33,000
Green Dot	4.3	1095	20,400	6.0	1325	31,000
N340	5.2	1201	23,800	5.8	1321	31,400
Unique	5.0	1065	19,800	6.8	1325	31,500
Power Pistol	6.3	1280	27,700	7.0	1389	31,900
HS-6	5.8	1011	19,500	7.2	1356	29,800
AA#5	6.6	1163	23,100	7.4	1284	29,300
SR-4756	5.3	1168	22,400	7.2	1380	30,500

Loads shown in shaded panels are maximum.
Loads shown in bold designate potentially most accurate load.
+ Designates a compressed powder charge.

9mm Luger (9mm Parabellum) (9 x 19mm)

		BC: .154 SD: .135				
Powder	Sugg Starting Grains	Velocity fps	Pressure C.U.P.	Max Load Grains	Velocity fps	Pressure C.U.P.
Titegroup	3.2	1021	25,200	3.8	1091	30,000
Bullseye	3.4	939	23,600	4.2	1175	32,500
700X	3.0	940	26,000	3.7	1080	31,600
Red Dot	3.0	919	25,100	3.9	1140	32,000
231	3.0	1010	20,000	4.1	1148	30,200
SR-7625	3.0	852	21,400	3.9	1095	31,300
PB	3.2	872	24,500	4.1	1106	31,400
Green Dot	3.5	966	26,200	4.4	1152	32,800
N340	4.0	1047	27,300	4.5	1135	31,600
Unique	4.0	1013	26,500	5.0	1194	32,800
Power Pistol	5.0	1107	27,700	5.6	1190	31,500
HS-6	5.0	904	23,000	6.3	1182	31,700
AA#5	5.4	1021	24,600	6.0	1136	30,300

		BC: .146 SD: .135				
Powder	Sugg Starting Grains	Velocity fps	Pressure C.U.P.	Max Load Grains	Velocity fps	Pressure C.U.P.
Titegroup	3.3	997	24,400	3.7	1109	32,200
Bullseye	3.8	1047	28,400	4.2	1124	31,200
700X	3.6	1031	26,600	4.0	1115	31,800
231	2.9	963	17,000	4.4	1264	29,600
Green Dot	3.8	1038	28,000	4.3	1136	31,400
N340	4.0	986	23,300	4.5	1098	30,200
Power Pistol	5.1	1124	28,200	5.7	1209	31,600
HS-6	5.0	910	20,000	6.2	1163	29,300
AA#5	5.4	1030	24,600	6.0	1150	31,100

#358093 125 gr. (#2 Alloy) 1.115" (OAL	BC: .0/9 SD: .141	
Powder	Sugg Starting Grains	Velocity fps	Pressure C.U.P.	Max Load Grains	Velocity fps	Pressure C.U.P.	
Clays	2.2	863	25,100	3.1	1030	30,800	
Titegroup	2.9	1002	26,800	3.3	1082	29,500	
Bullseye	3.3	1011	28,700	3.9	1130	31,400	
700X	2.8	948	25,000	3.5	1069	31,200	
231	3.2	946	27,600	4.2	1116	30,000	
Unique	3.4	1004	27,400	4.5	1195	32,600	
N340	3.6	1037	29,200	4.0	1122	31,900	
WSF	3.5	950	28,300	4.7	1158	30,900	
SR-4756	3.4	918	25,100	4.5+	1110	31,600	
AA#5	4.9	1063	26,500	5.5	1136	31,300	
Power Pistol	4.8	1129	30,000	5.4	1202	32,300	
HS-6	4.8	1028	27,100	5.8+	1175	32,600	

		SD: .166				
Powder	Sugg Starting Grains	Velocity fps	Pressure C.U.P.	Max Load Grains	Velocity fps	Pressure C.U.P.
Clays	1.9	669	21,000	2.8+	873	31,700
Titegroup	2.5	870	26,800	2.8	943	30,300
Bullseye	2.8	780	24,900	3.5	942	31,600
700X	2.7	803	26,500	3.3	921	32,200
Universal	3.0	875	26,300	3.4	969	31,000
Unique	3.2	810	25,600	3.8	956	31,800
N340	3.4	894	25,400	3.8	954	29,900
WSF	3.4	867	26,900	3.9	961	32,100
SR-4756	3.1	769	25,000	3.6	896	30,700
Power Pisto	4.1	939	26,100	4.6	1033	30,200
HS-6	4.4	846	26,700	5.0	968	31,900
AA#7	6.3	986	26,500	7.1	1061	29,300
Blue Dot	5.1	864	26,700	5.9	980	31,200

#356637

BC: .073