

Q - What is a Bushing Chart?

A – Modern shotshell loaders use powder bushings to measure the desired amount of powder for a given load. A Bushing Chart shows the relationship between a powder bushing (measuring volume) and the corresponding weight of a specific smokeless powder.

Q – How are Bushing Charts produced?

A – Generating a Bushing Chart is a 2-step process:

- Step #1 The internal volume of each bushing is calculated using bushing dimensions provided by the Loader manufacturer. Using the nominal density for each specific powder (provided by the powder manufacturer), volumes and corresponding charge weights are calculated.
- Step #2 Using multiple powder throws, the calculated charge weights are checked and verified at set intervals with specific bushings.

Notes on Using Bushing Charts and Loading Shotshell

- **Verify Charge Weights** – The charges weights shown in Bushing Charts are guidelines – verify the charge weight of a specific bushing and powder combination on a powder scale before you start loading.
- **Powder Density** – Hodgdon Powder Bushing Charts are based on the nominal density for each specific powder. The density for each specific smokeless powder may vary from lot to lot.
- **Grain Size** – Larger grain sizes will tend to throw lighter charges while smaller grain sizes will tend to throw heavier charges.
- **Consistency** – Be consistent in the loading process. Establish a loading process and stick to it as you load.
- **Single Stage vs Progressive** – Single stage machines tend to throw heavier charge weights than progressive machines.
- **Press Attachment** – Make sure your loading machine is solidly mounted to the loading surface.
- **Research** – Hodgdon has thousands of shotshell loads available online at hodgdonreloading.com where you can identify the correct powder for your specific application.
- **Powder Hoppers** – Do not leave powder in the loader hopper for long periods of time. Powder left inside the hopper can either lose or gain moisture over time.
- **Powder Dippers** – While there are several tools available on the market today that are used to scoop powder and measure it by volume, Hodgdon does not recommend the use of these tools. Hodgdon recommends that all smokeless powder be weighed on a scale.

HORNADY/SPOLAR BUSHING CHART

GRS	NITRO 100 NF	PERF PATT	TITWAD	COMP	CLAYS	700-X	HIGH GUN	TITEGROUP	WST	SUPER HDPC	INT'L	WIN 244	UNIV	WSF	HS-6	WS72 & LSHOT	LIL'GUN	H110
12.0		291							333	300	348	272					250	
13.0		300							348		363		330				259	256
13.5		309							354	309		291					266	
14.0		318							360	318	375	300	342			300	272	266
14.7							318	318	372	321								
15.0	384	327	384	384		408	324	324	378	324	390	309	354			309		
16.0	396	336	396	396	429	420	330	330	387	336	402	318	366			318	291	
16.5	402	345	402	402	435	423	336	336	393	339	408		372	330		327	300	
17.0	408		408	408	441	429	342	342	399	342	414	327	378	336	300	330		
17.4	414	354	414	414	447	435	345	345	405	348	417	330	384	339		336	303	
18.0	420	360	420	420	456	441	351	351	411	354	423	336	390	345	309	339	309	
18.5	426	366	426	426	462	447	357	357	417	360	429		393	348		345		
19.0	432	369	432	432	468	450	360	360	423	363	435	345	402	354	318	348		
19.4	435	372	435	435	474	459	363	363	426	369	438		405	357		354	318	
20.0	441	375	441	441	483	465	369	369	432	372	447	354	411	363	327	357		
20.6	450	381	450	450	489	468	375	375	441	375	453	360	417	369		363	330	
21.0	453	390	453	453	495	471	378	378	444	381	459	366	420	372	336	366		
21.5	459	393	459	459	501	474	381	381	450	384	465	369	423	378		369	333	
22.0	462	396	462	462	507	486	387	387	456	390	471	372	429	381	345	372		
22.5	468	402	468	468			390	390	459	396	477	375	432	387		378	345	
23.0	474	408	474	474			396	396	465	399	483	381	438	390	351	381		
23.5							399	399	468	405	489		441	396		384	351	
24.0	486	414	486	486			405	405	474	408	495	390	447	399	360	390	354	
24.5	489	417	489	489					477		501	393	450	402		393		
25.0	492		492	492					483		507	396	456	408	366	396	366	
26.0													468	417	375	405	372	
27.0													480	423	381	414	381	
28.0													489	429	387	423		
29.0													501	438	393	429		
30.0														444	402	435		
31.0														450	408	444		
32.0														456	414	450		
33.0														459	423	459		
34.0															429	465		
35.0															435	471		
36.0															441	480		
37.0															444	486		
38.0															450	492		