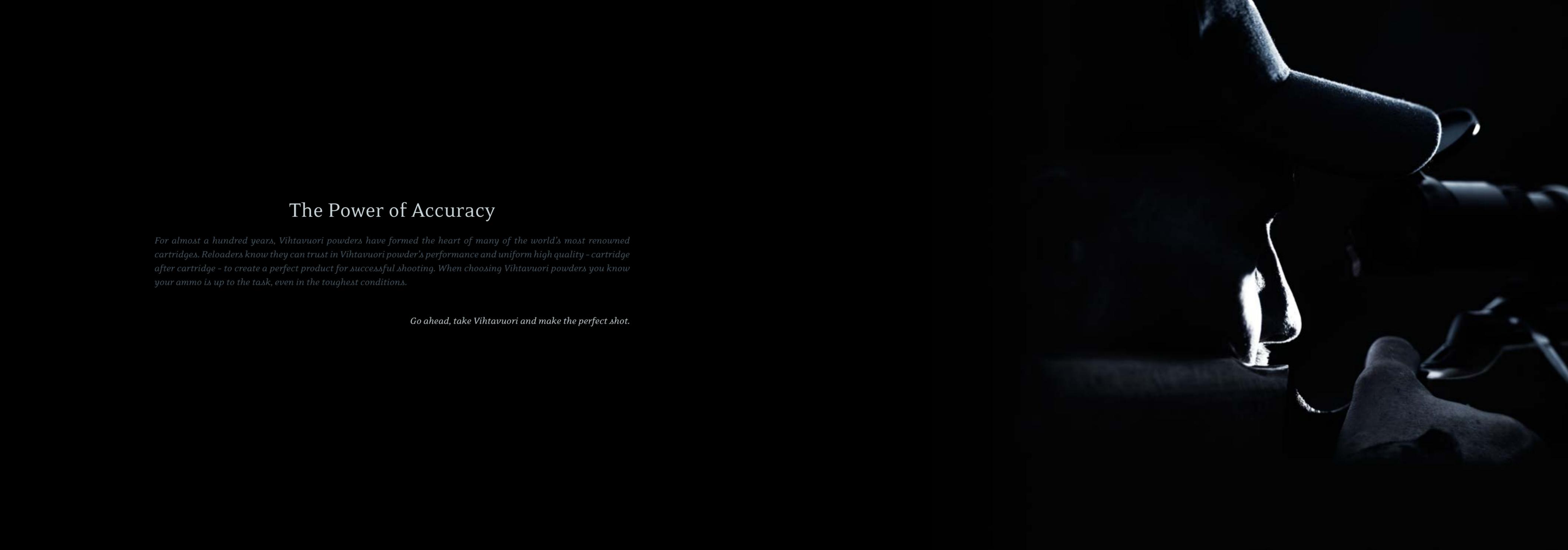




VIHTAVUORI

The Power of Accuracy



## The Power of Accuracy

*For almost a hundred years, Vihtavuori powders have formed the heart of many of the world's most renowned cartridges. Reloaders know they can trust in Vihtavuori powder's performance and uniform high quality - cartridge after cartridge - to create a perfect product for successful shooting. When choosing Vihtavuori powders you know your ammo is up to the task, even in the toughest conditions.*

*Go ahead, take Vihtavuori and make the perfect shot.*



## Experienced craftsmanship for the perfect ammo

For over 90 years, Vihtavuori has been known for producing high quality propellants with reliable ballistic performance, long shelf-life and wide variety selection. All of our powders meet the strict requirements of both civilian and military needs.

Vihtavuori powders come in three different series: N100 offers traditional single base propellants for rifle calibers, N300/3N offers porous single base powders and precise measuring capability for pistol cartridges, rimfire ammunition and shotgun shells, and N500 series powders are special high energy rifle propellants enhanced with nitroglycerin for extra ballistic performance.

## Quality by design

Manufacturing propellants entirely in-house ensures their high quality. All Vihtavuori powders are made using nitro-cellulose produced by cotton linters at our own plant. Premium quality Vihtavuori powders deliver consistently flawless firing performance – for you this means reliable reloading and ammunition you demand.

Each stage of the production process is subject to stringent quality control by the Vihtavuori experts to ensure that each production lot has the exact ballistic performance required. Each and every batch produced is inspected by comparing them to selected reference batches.

All Vihtavuori powders for small arms are extruded propellants. Propellant kernels are perforated cylinders of various sizes, flat ribbon flakes or other shapes extruded for special applications. The grain geometry of different powder types provides the wanted combustion characteristics for the chosen cartridge application.

The estimated shelf-life of Vihtavuori powders is a minimum of 10 years, if stored and sealed in its original containers at a temperature circa 20°C and relative humidity of circa 55 %.

All Vihtavuori reloading powders are packed into bottles and canisters and further in fiberboard boxes.

# Premium N100 Powders

*The N100 series powders are primarily rifle powders with different burning rates to optimize your loads.*

## N110

The fastest burning rifle powder from Vihtavuori. Similar to Hodgdon H110 and Winchester 296. N110 can be used in small rifle cases like .22 Hornet and .30 Carbine but also in magnum pistol and revolver cartridges like .357 S&W Magnum, .41 Magnum, .44 Magnum, .454 Casull and .500 S&W.

## N120

Slower burning powder for small capacity rifle cases and for lighter bullets in many .22 caliber loads. N120 needs higher pressure than N110 in order to optimize burning. Burning rate is near to Accurate 1680, IMR 4198 and Reloder 7. N120 is suitable also for 7,62x39, .30-30 Winchester and .444 Marlin.

## N130

This powder is used in many factory loaded caliber .22 and 6 mm PPC cartridges. Suitable also for lighter bullets in caliber .223 Remington and for straight-wall rifle cases like .45-70 Government and .458 Winchester Magnum. Burning rate is close to Hodgdon H322 and Accurate 2230.

## N133

A choice of many bench rest and standard rifle shooters who are using 6 mm PPC. Used also in many loads of .222 Remington, .223 Remington and as well in other applications where a relatively fast burning powder is needed, like in .45-70 Government. Similarly burning powders are Norma 201, Hodgdon H335 and Vectan SP10.

## N135

An excellent powder for .308 Winchester loads with bullet weight less than 10 grams (155 grains). It will fit applications similar to IMR4064, Hodgdon H4895 or Accurate 2520. Capability for various loads ranging from .222 Remington to .458 Winchester Magnum.

## N140

A true multipurpose powder, which can usually be used in place of IMR4320, Reloder 15 or Hodgdon H380. Good choice also for .223 Remington, .22-250 Remington, .308 Winchester, .30-06 Springfield, 8x57 IS (8 mm Mauser) and .375 H&H Magnum.

## N150

This powder burns a bit slower than N140 and works as well as Hodgdon H414 and Winchester 760. Typically used with heavier bullets in accuracy and hunting loads of cartridges with middle case volumes, like .308 Winchester, 6,5x55 SE and .30-06 Springfield.

## N160

A slow burning powder for Magnum cartridges and calibers with large case volume and comparatively small bullet diameter. Burning speed of N160 is close to Reloder 19, Winchester WMR and the various 4831 's. For example some ideal applications are: .243 Winchester, 6,5-.284 Norma, 7 mm Weatherby Magnum, .300 Winchester Magnum, .338 Winchester Magnum and all the Winchester Short Magnums.

## N165

A very slow burning powder for Magnum cartridges with heavy bullets. N165 offers performance equal to Norma MRP and Reloder 22. To be used with heavy bullets in calibers ranging from 6,5x55 SE all the way to .416 Rigby.

## N170

The slowest burning N100 series rifle powder from Vihtavuori and one of the slowest canister reloading powders generally available from any manufacturer. It will fit applications similar to Hodgdon H1000 and Accurate 8700. Good performances in most of the belted Magnum cartridges like .300 Weatherby Magnum and suitable also for .300 Remington Ultra Magnum and .338 Lapua Magnum.



# Premium N300 Handgun Powders

*The N300 series powders are ideal for handgun and shotgun loads.*

## N310

Very fast burning and competitive with Alliant Bullseye, Hodgdon HP38 and Vectan Ba 10. It has applications in a very wide range from .32 S&W Long Wadcutter up to .45 ACP.

## N320

A comparatively fast burning multipurpose handgun powder with burning rate about the same as Winchester 231 or Alliant Red Dot. Currently available reloading data for 9 mm Luger, .38 Super Auto, .38 Special, .357 Magnum, .40 S&W, .44 S&W Special, .44 Remington Magnum, .45 ACP and .45 Colt.

## Tin Star (N32C)

Special powder developed for Cowboy Action Shooters shooting lead bullets with revolvers and single-action rifles. It has low bulk density (less free space in the case) and it burns very clean without residues with a burning rate between N320 and N330. Reloading data is currently available for .38 Special and .44 Magnum.

## N330

Burning rate is a bit slower than with N320 and corresponding to Alliant Unique and Vectan Ba 9. Especially designed for 9 mm Luger but also suitable for .38 Special, .40 S&W, .44 S&W Special and .45 (Long) Colt.

## N340

An excellent multipurpose handgun powder with burning rate generally about like Accurate No.5 or Alliant Herco. Wide application area covers the following handgun cartridges: 9 mm Luger, 9x21 mm, .357 SIG, .38 Super Auto, .38 Special, .357 Magnum, .40 S&W, 10 mm AUTO, .44 S&W Special, .44 Remington Magnum, .45 ACP and .45 Colt.

## N350

This is the slowest burning N300 series handgun powder, which can usually be used instead of Accurate No.7, IMR Hi-Skor 800-X and Alliant Blue Dot. Appropriate choice for many powerful handgun loads, for example in calibers 9 mm Luger, 10 mm AUTO and .45 ACP.

## 3N37

Originally developed for .22 rimfire cartridges but has proven to be very versatile and desirable within all competitive handgun shooting disciplines. The burning speed of this small grain powder is near to N350 and Vectan A0. Reloading data available for all popular handgun cartridges.

## 3N38

This specially designed powder for competitive handgun shooting is recommended for high velocity loads of 9 mm Luger, .38 Super Auto and .40 S&W with moderate bullet weight. Burning rate is corresponding to Vectan SP 2.

## N105 Super Magnum

Slow burning handgun powder filling the gap between N350 and N110. Especially developed for handgun cartridges with heavy bullets and/or large case volume. Reloading data is currently available for the following cartridges: 9x21 mm, .38 Super Auto, .357 Magnum, 357 Remington Maximum, .40 S&W, 10 mm AUTO, .41 Remington Magnum, .44 Remington Magnum, .45 Colt, .45 Winchester Magnum and .454 Casull.



## Reloading customer service

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P.O. Box 5, FI-62101 LAPUA, Finland  
Telephone +358 10 523 3800, Telefax +358 6 431 0244  
[www.lapua.com](http://www.lapua.com)

# Premium N500 High Energy Powders

*The N500 series of Vihtavuori propellants provide the utmost in performance for added velocity and range with heavy bullets. Nitroglycerine has been added to the traditional single base powder to get better energy content.*

*The series offers five different reloading powders with different burning rates.*

## N530

This is the fastest burning powder in the N500 series and its burning rate is close to Vihtavuori N135 and Hodgdon BL-C(2). Developed especially for the 5,56 mm NATO-cartridges and it gives excellent performances in many .45-70 Government loads and also in .308 Winchester loads with bullet weight less than 10 grams (155 grains). Qualified STANAG 4170.

## N540

Faster burning powder with a burning rate like with N140 and close to Hodgdon H414 and Winchester 760. To situations where more power is needed, especially for .223 Remington, .308 Winchester and .30-06 Springfield loads with heavier bullets. Qualified STANAG 4170.

## N550

Burning rate is like with N150 and close to IMR 4350 and Reloder 19. Good choice for more powerful loads for 6,5x55 SE, .308 Winchester, .30-06 Springfield and for many others.

## N560

Burning rate is between N160 and N165 and close to Norma MRP and Reloder 22. Powder especially for Magnum cartridges to get out the best power for example from .270 Winchester, 7 mm Remington Magnum, 7 mm Weatherby Magnum, .300 Winchester Magnum, .300 Weatherby Magnum and .338 Lapua Magnum.

## N570

This is the newest member of the N500 series powders and also the slowest burning. The burning rate of N570 is near to N170 and it is faster burning than 24N41. The characteristics of this high energy powder with large grain size bring out the best in most of the large volume cases like for example in 6,5-.284 Norma, .300 Winchester Magnum, .300 Remington Ultra Magnum, .338 Lapua Magnum and .30-378 Weatherby Magnum.

## Powders for the .50 BMG

### 24N41 / 20N29

For .50 BMG there are two special Vihtavuori reloading powders available: 24N41 and 20N29. They are, like N100 series, single base surface treated powders. Their burning rate is slower and grain size larger than that of the N100 series rifle reloading powders. The renewed relative burning rate of the 24N41 is 39 and that of the 20N29 respectively 36, when N110 is given the index 100, and therefore 24N41 is slightly faster burning than 20N29. There is reloading data available also for some other magnum rifle calibers with these powders and 20N29 has gained reputation also when used eg. in .338 Lapua Magnum and in .30-378 Weatherby Magnum.

## Vihtavuori N100

Reloading Powders for Rifles

	N110	N120	N130	N133	N135	N140	N150	N160	N165	N170	24N41	20N29
Bulk density (g/l)	800	860	870	870	870	910	910	920	920	960	970	960
Energy content (J/g)	3950	3700	3750	3600	3550	3700	3750	3650	3500	3700	3700	3600

Relative burning rate of powder types mentioned above decreases from left to right.

## Vihtavuori N300

Reloading Powders for Handguns

	N310	N320	N32C	N330	N340	N350	3N37	3N38	N105
Bulk density (g/l)	560	550	420	620	620	660	720	730	730
Energy content (J/g)	4100	4100	3050	4100	4100	4100	4100	4000	3950

Relative burning rate of powder types mentioned above decreases from left to right.

## Vihtavuori N500

High Energy Reloading Powders for Rifles

	N530	N540	N550	N560	N570
Bulk density (g/l)	930	940	940	960	960
Energy content (J/g)	3950	4000	3900	4000	4000

Relative burning rate of powder types mentioned above decreases from left to right.

## Consumer Package Information

Reloading Powder types	Consumer package, bottle 1,2 ltr (73.2 in <sup>3</sup> ) Measures: sides & height 95 x 75 x 226 mm	
	net weight	gross weight
N110, N120, N130, N133, N135, N140, N150, N160, N165, N170	1,0 kg	1,1 kg
24N41, 20N29, N530, N540, N550, N560, N570	1,0 kg	1,1 kg
N310, N320, N32C, N330, N340, N350, 3N37, 3N38, N105	0,5 kg	0,6 kg

Package information concerning 1,2 ltr (73.2 in<sup>3</sup>) bottles with 1,0 kg and 0,5 kg of powders mentioned above.

Reloading Powder types	Consumer package, canister 4,5 ltr (274.6 in <sup>3</sup> ) Measures: sides & height 135 x 189 x 260 mm	
	net weight	gross weight
N110, N140, N150, N160	3,5 kg	3,7 kg
N310, N320, N340, 3N37, 3N38	2,0 kg	2,2 kg

Package information concerning 4,5 ltr (274.6 in<sup>3</sup>) canisters with 3,5 kg of powders mentioned above and respectively with 2,0 kg of powders mentioned above.



The latest Edition of the Vihtavuori Reloading Guide is available through Vihtavuori distributors worldwide. The latest updates in [www.vihtavuori.com](http://www.vihtavuori.com).

All Vihtavuori reloading powders are packed into bottles and canisters and further in fiberboard boxes.



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