VihtaVuori®

The Power of Accuracy

EST. 1922

REPORT OF Civil And Military Applications

MAKE BETTER CARTRIDGES WITH VIHTAVUORI POWDERS TEAM UP WITH THE BEST



Vihtavuori powders are known throughout the shooting world for unbeatable consistency over production batches and over series of shots.

Shooting champions, serious recreational shooters and cartridge manufacturers alike trust Vihtavuori powders when they require consistent performance, ease of use, cleanest burn, most reliable ballistic properties and long-term storage.

Vihtavuori powder quality is assured by stringent testing and full control of the manufacturing process, starting with our own nitrocellulose. With selected raw materials and the technological leadership of our fully modernized factory, we are proud to produce the best powder in the world, constantly developing our operation to meet the customer's needs.

One of our key principles is that our partners never walk alone. We want to be sure that your product is top quality. Creating a winning cartridge is a joint effort, and we are ready to provide the key ingredient.



Nitrocellulose production

Manufacturing propellants entirely in-house ensures the highest guality. All Vihtavuori powders are made using nitrocellulose produced at our own plant.

Consistency as a standard

Consistency on a top level is our guiding principle. We require extreme precision and quality on every step of our production process, and the same mindset is extended to partner cooperation.

150 quality checks

Certificates

We produce a detailed control certificate for every gunpowder type. Our powders are certified for guality, environment, health and safety*. All powders are REACH compliant.

We ensure consistent high quality through extensive quality control and strict tolerance levels. Up to 150 quality checks are made during the manufacturing process before powder is packaged and shipped.

Nearly 100 years of experience

We value our long heritage and history, but those alone don't make areat powder - the accumulated excellence and smooth processes growing from our long experience do.

Active & innovative

We believe that active research and development keeps us at the forefront. It also benefits our partners, as we are constantly bringing new powder types and innovations to the market.



The WARDEN BARDEN BARDE

Efficiency

Due to the uniform grain size, propellant flows easily in loading machines, increasing the speed and efficiency of production. Consecutive batches are consistent in properties and performance – no need for readjustment.

Precision

Vihtavuori powders offer the best precision, consistency and cleanest burn, enabling the creation of a flagship cartridge. All powders come with anti-fouling agent.

Reliability

Our deliveries are fastest and most reliable on the market. We are proud of our brand, so we make sure that the final product is also top quality – our partners never walk alone.

Flexibility

Vihtavuori reloading and industrial powders match up. You can get preliminary test batches easily from the nearest retailer or by air freight. Powder recipes can be tailored to your specified needs.

Ballistic Test Center

Our test center is supporting our production quality control and producing ballistic data using the CIP and SAAMI specifications. With EPVAT testing, we are able to offer comprehensive functional quality tests in line with the NATO standard in different applications.



Finding the optimal solution

With the broadest offering of small caliber powders, top-of-the-line test facilities and laboratory services, Vihtavuori can offer the best solution for a wide range of ammunition.

Introducing a new powder into your production is a joint development project. We support the deployment with extensive controls, test shooting and technical support. We perform strict quality tests for all our listed and tailored powders at our facilities in Vihtavuori. Our personnel are at your service to ensure the best quality of your final product.

Laboratory

Our laboratory provides all the material tests and analyses needed to ensure quality and compatibility with the final application. We work according to international standards. We also provide tests and analyses for your needs beyond our cooperation.



We take it personally

We think it's more convenient to do business personally. That's why you will be appointed a personal contact from our sales team, with the best expertise on your specific needs.



Warehouses in Europe and US

Our warehouses on two continents ensure fast and reliable delivery around the world.

Europe: +358 10 523 3140 USA: +1-714-441-7200 sales.vihtavuori@nammo.com

N100 **Rifle powders**

N110

N120

N130

N133

N135

N140

N150

N160

N165

N170

24N41

20N29

Vihtavuori industrial powders

We manufacture small caliber propellants for military and civil applications, and medium and large caliber propellants for various military purposes.

Vihtavuori has the widest range of small caliber powders on the market. The industrial powders match with our consumer products and can be tailored to fit various applications.

All small caliber propellants are of extruded type. Propellant grains are perforated cylinders, flakes or other shapes extruded for special applications. Grain geometry optimizes the burning behavior for the intended application.

Our fastest burning powder suitable for small rifle cartridges such as the 22 Hornet and 30 Carbine, but also well suited to many of the more powerful Magnum handgun rounds. It is particularly applicable for the 44 Magnum, 454 Casull, 500 S&W and similar high-performance revolver cartridges.

A well-balanced powder specifically for some of the intermediate cases such as the 300 Blackout and 7.62x39. It operates best at a somewhat higher pressure than the faster N110, and gives good results in a variety of the small to mid-capacity cases such as the 221 Fireball and 30-30 WCF.

A fast-burning rifle powder well suited to both small cases like the 22 and 6 mm PPCs, and large straight-walled cases such as the 45-70 and 458 Win Mag. N130 is also an excellent choice for lighter bullets in such cartridges as the 222 and 223 Rem. Exceptional accuracy combined with the benefits of our anti-coppering technology.

Ideally suited to the 6mm PPC, but it's also versatile enough to serve in a wide variety of cartridges. Especially where a relatively fast-burning powder is called for, ranging from the 222 Rem to the 45-70 Govt.

An excellent choice for lighter bullets in a number of small cartridges, N135 is a relatively fast powder that delivers outstanding accuracy, velocity and consistent performance. Well suited to cartridges like the 6 mm BR, 222 and 223 Rem, as well as large straight-walled cases such as the 458 Win Mag.

An incredibly versatile powder, well suited to a wide range of cartridges and bullet weights. From the 223 Rem with heavy bullets, to full sized powerhouses like the 375 H&H Magnum, our N140 is an ideal choice. Giving good velocities, clean performance and exceptional stability, this is the standard "go to" powder for a wide variety of cases.

Our N150 is a slow burning powder, well suited to most common mid-sized cartridges when used with heavier bullets. An excellent choice for 185-220 grain bullets in the 30-06, 140-160 grain bullets in the 6.5x55, and 175-200 grain bullets in the 308 Win. Combining Vihtavuori's latest anti-coppering technology and enhanced temperature stability, N150 is a tremendously versatile powder.

A slow-burning powder well suited to a broad range of Magnums, and large capacity/small bore cartridges like the 6.5-284. It is an ideal combination when used with the 270 WCF, 25-06, and a variety of belted Magnums. An excellent choice for lighter to mid-weight bullets in these cartridges, N160 is temp stable and exceptionally clean burning.

N165 is a very slow burning powder, making it a superior choice for the same range of cartridges as our N160 when using heavier bullets. Delivering slightly higher velocities with these projectiles makes N165 a wise choice when long-range performance is the goal. It delivers superb accuracy in the 338 Lapua Magnum, and is a top choice for that cartridge.

Our slowest burning N100 series powder, recommended for the very large capacity cases such as the 300 Weatherby Mag, the 300 Rem Ultra Mag. N170 is one of the slowest powders readily available from any manufacturer.

Vihtavuori offers two powders specifically for the 50 BMG case; 24N41 and 20N29. These are singlebased treated powders, having very large kernel size and extremely slow burning rates ideally suited to the 50 BMG. They also have some application in a few other very large capacity cases, such as the 338 Lapua Magnum and the 30-378 Weatherby Magnums. Of the two, 24N41 is slightly faster than 20N29. We have loading data for both powders in some of the larger cased magnum cartridges.

N300

Handgun & shotgun powders

N310 is an extremely fast-burning pistol powder, ideally suited to light, target type loads. It gives outstanding accuracy in a wide range of cartridges from the 32 S&W Long to the 45 ACP wadcutter loadings. Clean burning, consistent and easy to load, N310 is the top choice for the competitive shooters.

N320 N32C

N310

N330

N340

N350

3N37

3N38

N105

Originally developed as a powder for loading 22 Rimfire cartridges, 3N37 has a burn rate very similar to N350, and can be sued for many of the same applications. As handgun shooters began to experiment with 3N37, they found that this fine-grained powder loaded evenly through a measure and gave excellent results from a range of competitive cartridges used for USPSA and IPSC shooting.

All powders are **STANAG 4170** qualified

Ten vears minimum storage

A fast-burning powder for use in light to mid-range target loads, in cartridges ranging from the 9 mm and 38 Special, up to the 44 Special and 45 ACP. Capable of producing higher velocities at acceptable pressures than our N310, N320 provides the handloader a bit more versatility at the loading bench.

This is a specialized powder intended to provide low bulk density for cartridges that were originally designed for Black Powder. The use of more conventional powder results in poor load density, and fails to adequately fill the case. Our N32C corrects this problem, and is ideally suited to many of the older cartridges used in Cowboy Action shooting, such as the 38 Special, 44 Special and 45 Colt.

N330 provides a wide range of latitude for the handgun shooter, serving well for everything from light target to heavier high-velocity loadings. This is a versatile powder suitable for an exceptionally broad range of applications, usable in cartridges from the 380 ACP and 9 mm, to 45 Colts.

A flexible powder that serves well in medium to heavy, high velocity loadings. N340 is a good performer in high intensity rounds like the 357, 41 and 44 Magnums, the 40 S&W and 10mm ACP, and the 357 SIG cartridges.

Our N350 is the slowest in the N300 series of handgun powders, and is ideal for very heavy loadings, and top end velocities and energies from a broad range of pistol and revolver cartridges. It is very well suited to loading powerful rounds such as the 10mm and heavy loads in the 45 ACP.

Our 3N38 is a specially designed powder specifically for competitive handgun shooting with high-velocity loads in the 9mm, 38 Super and 40 S&W cartridges. A relatively slow-burning powder, 3N38 is a perfect choice for making Major with good accuracy and the clean-burning characteristics for which Vihtavuori is renowned.

N105 Super Magnum is our slowest burning pistol powder, intended for the most powerful handgun cartridges in use today. Many of these specialized rounds operate at rifle pressures. Delivering this type of performance is precisely what prompted the development of N105. For such powerhouses as the 454 Casull, 460 or 500 S&W, N105 is an excellent powder choice.

	N530	cases like the 223/5.56, or large straight-walle	530 is an ideal for for many of the smaller bottlenecked ed cases such as the 45/70 Springfield. It is also a useful 18 Win, when using lighter weight bullets of 155 grains or	VIHTAVUOI											
N500	N540	from the 223/5.56mm, 308 Win and 30/06 Sp choice for the 223 when using heavy bullets ru	es, and an excellent choice for cartridges running ringfield with appropriate bullet weights. This is an excellent unning from 69 to 82 grains. It is exceptionally clean-	Powder	Burning rate* (N110 = 100)	Length mm	Diameter mm	Bulk density g/l	N c						
High operau		burning and delivers outstanding accuracy.		N105	123	1,1	0,8	730							
High energy rifle powders		A slower burning powder very well suited to a	wide range of medium to large cartridges, especially with	N110	100	1,1	0,8	800							
	NEEO	heavier bullet weights. An ideal fit for many of	the 300 caliber magnums with lighter bullets, but useful	N120	81	0,8	0,6	860							
	N550		well matched to heavy bullet loadings in the 6.5x55 and	N130	71	1,0	0,8	870							
		30/06 Springfield cartridges.		N133	62	1,0	0,8	870							
				N135	57	1,0	0,8	870							
		· · · ·	n rifle platforms chambered in cartridges such as 6mm alibers with large case volume and comparatively small	N140	54	1,0	0,9	910							
	N555	bullet diameters. N555 is the most temperatu	re stable powder in its class, and features unprecedented	N150	51	1,3	1,0	910							
N500 propellants provide the best performance for added velocity and range with heavy bullets. Nitroglycerine has been added to		performance in the 6.5 Creedmoor. Its unmate re-developing your favorite loads.	ched lot-to-lot consistency also eliminates costly range time	N160	46	1,3	1,0	920							
		re-developing your ravonte loads.		N165	43	1,3	1,0	920							
		A very eleve hurning powder for lorge megnur	n style cases, particularly when heavy bullets and high	N170	39	1,7	1,1	960							
	NEOO		the 270 WCF, 7 mm Remington or Weatherby Magnums,	24N41	39	2,3	1,3	970							
	N560	300 Winchester, RUM or Weatherby Magnums	s or the new Nosler line of cartridges. A very good choice for	20N29	36	2,3	1,3	960							
		the 338 Lapua Magnum when using lighter bu	llets of 250 grains or less.	N310	310	0,7	0,6	560							
				N320	278	1,0	0,8	550							
			for heavy bullet (250 gr) loads in our own 338 Lapua fference in burn-rate between N560 and N570, but is a bit	N32C	234	1,2	1,1	420							
the traditional single base powder	N565		cartridges and bullets as the first two, but allows the loader	N330	198	1,0	0,8	620							
to increase energy content.		another option in fine tuning a load to the perf		N340	187	1,0	0,8	620							
				N350	166	1,0	0,8	660							
		N568 is the ideal choice for today's most popu	ular large capacity magnum cartridges, such as the 6.5 PRC,	3N36	281	0,6	0,5	590							
		.300 PRC, .300 Winchester Magnum, and .338	B Lapua Magnum. N568's slow burning characteristics and	3N37	162	0,6	0,6	720							
	N568		metering for long range competitive shooters, accuracy ith heavy-for-caliber projectiles and provides exceptional	3N38	142	0,6	0,6	730							
			hidity changes. An excellent choice for classic belted	N530	55	0,8	0,8	930							
		magnum cartridges such as 7mm Remington	Magnum, .300 RUM, .338 Winchester Magnum and more.	N540	52	1,0	1,0	940							
				N550	50	1,0	1,0	940							
		The slowest burning member of the N500 line	, N570 is the perfect choice for those tasks requiring heavy	N555	46	1,2	1,1	940							
			n rate is very close to that of our N170, but will generally	N560	43	1,4	1,2	960							
	N570		ges, and using the same bullet weights. The burn-rate	N565	42	1,4	1,2	960							
VIHTAVUORI	1	6.5x284, 300 Rem Ultra Mag, 338 Lapua Magi	very best possible performance from such cartridges as the num and the 30-378 Weatherby Magnums.	N568	42	1,5	1,4	907							
				N570	42	2,3	1,3	960							
	Ter	nperature stability	Civil classified	Package types and sizes											
ma and		oowder recipe guaranties stable	Vihtavuori small caliber powders	Vihtavuori powders are shipped in fibre drums, cardboard											
	Tunci	ion over a wide temperature	are civil classified and do not	boxes or smaller containers depending on powder type.											

require export licenses.

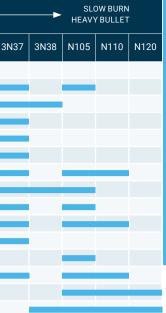
range in different calibers.

TAVUORI POWDERS

Moisture	Energy	Package	Concent. of	
content %	content J/g	Cardboard box	nitroglycerine %	
1,1	3950	15 kg		
1,1	3700	15 kg		*Values of Relative Burn
1,1	3700	20 kg		Rate Numbers for Vihtavuori
1,1	3750	20 kg		Powders have been calculated from the laboratory test
1,1	3600	20 kg		results determined with a
1,1	3550	20 kg		so-called manometric bomb (a
1,1	3700	20 kg		hermetically sealed chamber), which allows experimental
1,1	3750	20 kg		determination of burning
1,1	3650	20 kg		characteristics (ie. vivacity) of powders. Here N110 is given
1,1	3500	20 kg		the index number 100. The
1,1	3700	20 kg		higher the number, the quicker
1,1	3700	20 kg		burning powder. The Burn Rate of a powder type varies slightly
1,1	3600	20 kg		in different circumstances:
1,2	4100	9 kg		caliber of the weapon is
1,1	4100	12 kg		one of the most important factors as are also case-
1,1	3050	12 kg		bullet-powder charge-loading
1,1	4100	15 kg		density -combination. DO NOT
1,1	4100	15 kg		USE RELATIVE BURN RATE NUMBERS FOR DEVELOPING
1,1	4100	15 kg		LOADS!
1,1	4100	9 kg		
1,1	4100	15 kg		
1,1	4000	15 kg		
0,6	3950	20 kg	12	
0,6	4000	20 kg	12	
0,6	3900	20 kg	12	
0,6	3700	20 kg	4	
0,6	4000	20 kg	12	
0,6	4000	20 kg	12	
0,6	3850	20 kg	б	
0,6	4000	20 kg	15	

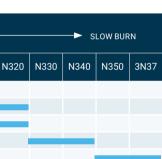
Cardboard b	oox: 30,5	x 27,5	x 38 c	m	
Weight, kg	net:	9	12	15	20
	gross:	10,1	13,1	16,1	21,5

Rifle powders		FAST B LIGHT I	URN BULLET	•																	► HE	SLOW BU EAVY BULL	RN .ET	Han	dgun powde	ers		FAST BU LIGHT BI	RN JLLET	•			
CALIBER	N105	N110	N120	N130	N133	N135	N140	N150	N160	N165	N170	24N	41 201	129 N	530 N	1540	N550	N555	N560	0 N5	65 1	N568 N5	70	CALIBE			N310	N320	N32C	N330	N340	N350	3N3
.204 Ruger																					а	dd		.32 S&V	/ Long Wadcutter								
.22 Hornet																								9 mm L									
.222 Remington																								9 x 21	- 3 -								
.223 Remington																									Vinchester								
.223 WSSM																								.357 SIC									
.243 Winchester										1														.38 Spe									
6 XC								_																.357 Ma				_			_		
6,5 mm Grendel																								.40 S&V									
6,5 x 47 Lapua						_	_											_						10 mm									
6.5 Creedmoor										1														.44 Rem	nington Magnum								
.260 Remington																								.45 ACF						_		_	
6,5 x 55 Swedish Mauser																						_	-	.45 Colt						_			
6,5 x 55 SE / 6,5 x 55 SKAN																								.454 Ca	sull							_	
6,5 - 284 Norma												-											-	.50 AE									
.270 WSM																								.500 S&	W Magnum								
.270 Winchester												-									•												
7 x 57							-																										
7 x 57R												-												Shot	gun shells					FAST B	URN <		
7 x 64																																	
7 mm Remington Mag																					•			CALIBE	R					N310	N312	N318	N32
.300 AAC Blackout				•																				12/70 2	4 g load								
.308 Winchester							_								1									12/70 2	8 g load								
7,62 x 53R (7,62 Russian)																								12/70 3	2 g load								
7,5 x 55 Swiss GP31																								12/70 3	6 g load								
.30-06 Springfield																					•			12/70 3	8-40 g load								
.300 H&H Magnum																					•												
.300 WSM																					•												
.300 Winchester Magnum																							-										
.300 Lapua Magnum																															100	-	
.300 Norma Magnum																I															-		
7,62 x 39					-																									1			
8 x 57 IS (8 mm Mauser)						-																						2				1	
8 x 57 IRS																										-	1	-					
.338 Winchester Magnum																					•												
.338 Lapua Magnum																							-										
.338 Norma Magnum																							-									1	
9,3 x 62															1																		
9,3 x 66 Sako																																-	
9,3 74R																															-		
.375 H&H Magnum																																	
.416 Rigby																																	
.458 Win Magnum																									-		-						
.50 Browning																												-					



Further caliber information is available in Vihtavuori Reloading Guide, the Vihtavuori RELOAD app and on our website.











Contacts

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Part of Nammo Group

Nammo is an international aerospace and defense company headquartered in Norway. With more than 2300 employees spread across more than 30 sites and offices in 14 countries, Nammo is one of the world's leading providers of ammunition, rocket motors and demilitarization services for both military and civilian customers.

Operating as an independent company within Nammo Group, Vihtavuori follows the group's strict standards of quality and sustainability.



The Power of Accuracy