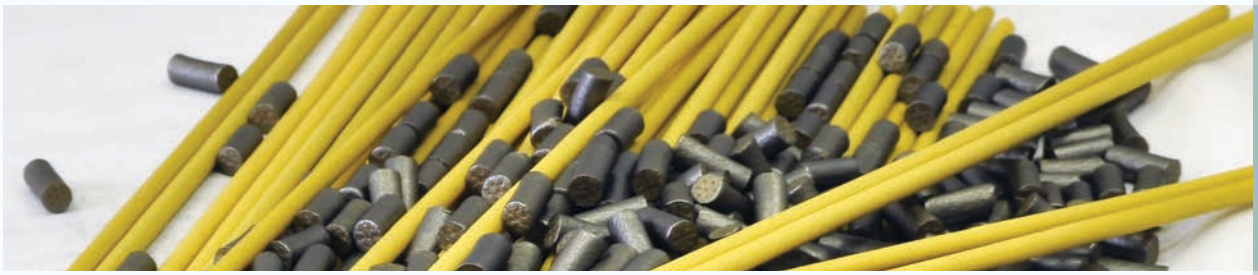
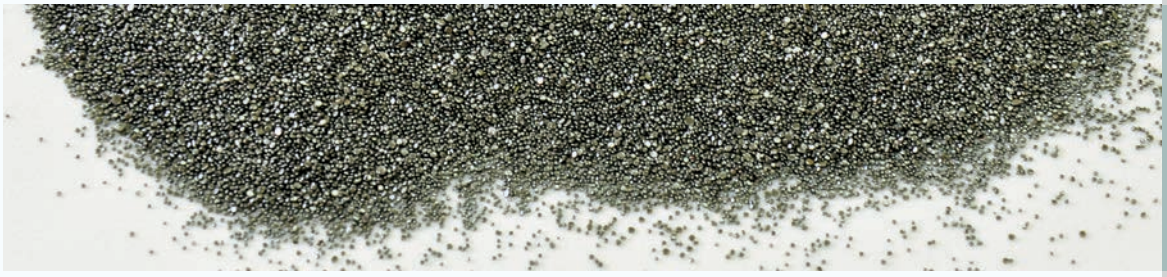
PROPELLANTS
POWDERS





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MAIN PRODUCTION RANGE

- **NITROCELLULOSE**
  - *POWDER GRADE*
  - *DYNAMITE GRADE*
  - *INDUSTRIAL GRADE*

- **POWDERS**
  - *SINGLE BASE*
  - *DOUBLE BASE*
  - *SPHERICAL*
  - *ROCKET PROPELLANTS*
  - *POWDER CHARGES*

- **COMBUSTIBLE COMPONENTS**
  - *CHARGE FOR CAL.125mm*

- **CELLULOID AND CELLULOID CONTAINERS**

- **COMMERCIAL POWDERS**
  - *SHOTSHELL POWDERS*
  - *RIFLE (CARBINE) POWDERS*
  - *PISTOL AND REVOLVER POWDERS*

- **MILITARY POWDERS**
  - *PISTOL AND RIFLE AMMUNITION*
  - *AIRCRAFT AND ANTI - AIRCRAFT AMMUNITION*
  - *MORTAR SHELLS*
  - *MORTAR SHELLS - EXTENDED RANGE*
  - *ARTILLERY AMMUNITION - POWDERS CHARGES*
  - *TANK AMMUNITION*
  - *IGNITION POWDERS FOR ARTILLERY*
  - *GRENADE LAUNCHERS AMMUNITION*

- **SPORT AND SPECIAL POWDERS**

SRPS ISO 9001
SORS 9000
SRPS ISO 14001
SRPS ISO 45001

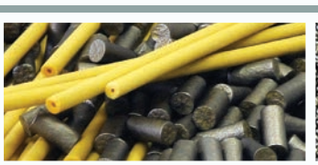
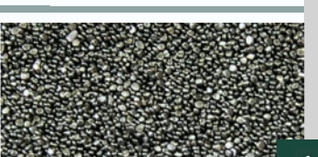
SHOTSHELL AMMUNITION

Single base powders - flake

Type of powder	Main application	Weight of shots, g	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
NC - 04/24	12/70	24	*TU* 20/25	1,30	405	550±40
NC - 04/28		28		1,40	400	560±40
NC - 04/32		32		1,60	395	600±40
NC - 04/36		36		1,80	390	640±40
NC - 04/40		40		1,90	385	680±40
NC - 04/50	12/76	50		2,20	380	850±40

Spherical powders

Type of powder	Main application	Weight of shots, g	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
SB - 501	12/70	24	*TU* 30/21	1,30	405	570±40
SB - 502		28		1,40	400	580±40
SB - 503		32		1,60	395	600±40
SB - 504		36		1,80	390	640±40
SB - 505		40		1,90	385	690±40
SB - 506	12/76	50		2,20	380	850±40

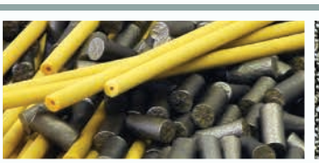
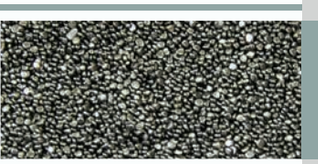
RIFLE (CARBINE) AMMUNITION

Single base - tubular powders

Type of powder	Main application	Bullet	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
NCD - 021	.223 Remington	SP (3,56 g)	*SORS* 4120/86 *(C.I.P.)*	1,70	955	≤ 3870
		FMJBT (3,56 g)		1,61		
NC - 08	7,62 x 39 Russian	FMJ (8,0 g)	*SORS* 1165/94	1,60	725	≤ 3200
		PSP (8,0 g)				
		SPRN (8,0 g)			715	
NCD - 02/M	.308 Winchester	SP (9,7 g)	*SORS* 1252/97 *(C.I.P.)*	2,95	830	≤ 3750
		SP (11,7 g)		2,86	755	
		HPBT (10,9 g)		2,92	775	
NCD - 02/R	7,62 x 54R Russian	SPBT (9,7 g)	*SORS* 1199/97	3,34	845	≤ 3300
		SPBT (11,7 g)		3,08	785	
		FMJBT (9,7 g)		3,22	845	
		FMJBT (11,8 g)			785	
NCD - 02	.30 - 06 Springfield	SP (9,7 g)	*SORS* 1198/94 *(C.I.P.)*	3,45	860	≤ 3650
	8 x 57	SP (9,0 g)		3,30	780	≤ 3400
	7 x 57		*SORS* 1198/94	2,82	790	≤ 2900
	7 x 57R			2,71	770	≤ 2550

Extruded - modified - tubular powders

Type of powder	Main application	Bullet	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
EMB - 022	.270 Winchester	SP (8,4 g)	*TU* 20/11 *(C.I.P.)*	3,60	905	≤ 3850
		SP (9,7 g)		3,40	845	
		HPBT (9,7 g)				
EMB - 02	.30 - 06 Springfield	SP (9,7 g)	*TU* 20/7 *(C.I.P.)*	3,53	860	≤ 3650
		HPBT (10,9 g)		3,51	840	
		GROM (11,0 g)		3,50	790	
		SP (11,7 g)		3,48	800	

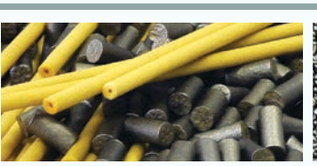
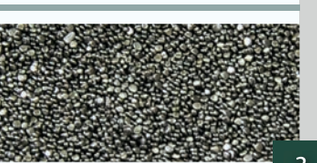



RIFLE (CARBINE) AMMUNITION

Type of powder	Main application	Bullet	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
EMB - 03	.300 Winchester Magnum	SP (11,7 g)	TU 20/8 (C.I.P.)	4,55	865	≤ 3850
	7 mm Rem. Magnum	SP (11,7 g)		4,30	830	≤ 3870
	6,5 x 55 Swedish	FMJBT (9,0 g)		2,47	755	≤ 3420
		SPBT(9,0 g)		2,48		

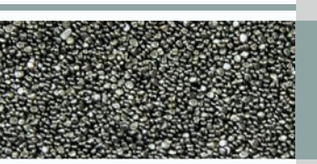
Spherical powders

Type of powder	Main application	Bullet	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
SB - 440	.22 Hornet	SP (2,90 g)	TU 30/25 (C.I.P.)	0,74	750	≤ 2700
SB - 511	.223 Remington	SP (3,56 g)	TU 30/34 (C.I.P.)	1,70	955	≤ 3870
		FMJBT (3,56 g)		1,69		
		FMJBT (4,0 g)		1,64	905	
SB - 515	7,62 x 39 Russian	FMJ (8,0 g)	SORS 7268	1,80	725	≤ 3200
		PSP (8,0 g)		1,79		
		SPRN (8,0 g)		1,82	715	
SB - 529	.308 Winchester	SP (9,7 g)	TU 30/26 (C.I.P.)	3,01	830	≤ 3750
		FMJ (9,7 g)		2,82	755	
SB - 530	.308 Winchester	HPBT (10,9 g)	TU 30/31 (C.I.P.)	2,98	775	≤ 3750
SB - 531	.308 Winchester	SP (11,7 g)	TU 30/24 (C.I.P.)	2,92	755	≤ 3750
SB - 629	.30-06 Springeld	SP (9,7 g)	TU 30/27 (C.I.P.)	3,40	860	≤ 3650
SB - 630	.30-06 Springeld	SP (11,7 g)	TU 30/39 (C.I.P.)	3,57	840	≤ 3650
SB - 530 R	7,62 x 54 mm R	FMJ (11,7 g)	TU 30/47	3,30	785	2746
SB - 432	300 Blackout	FJM (8,1 g)	TU 30/52	1,25	660	≤ 3700
SB - 628	6,5 Creedmoor	HPBT (9,1 g)	TU 30/51	2,75	820	4350

PISTOL AND REVOLVER AMMUNITION

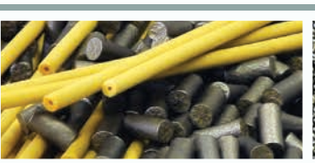
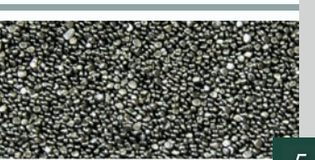
Single base powders						
Type of powder	**Main application**	**Bullet**	**Standard**	**Weight** *~ ω [g]*	**Velocity** *V [m/s]*	**Pressure** *Pm [bar]*
NC - 03 - flake	7,62 Tokarev	FMJ (5,5 g)	*SORS 1196/89*	0,51	500	≤ 2150
	9 mm Makarov	FMJ (6,0 g)	*SORS 1196/89 (C.I.P.)*	0,35	315	≤ 1500
	9 mm Luger	FMJ (7,45 g)		0,37	340	≤ 2000
		FMJ (8,0 g)		0,38	330	
	.40 S&W	FPJ (10,7 g)		0,40	300	≤ 1600
	.45 Auto	FMJ (14,9 g)		0,42	250	≤ 1050
	.32 Auto	FMJ (4,6 g)	*SORS 1196/89 (SAAMI)*	0,18	270	≤ 880
	.380 Auto	FMJ (6,1 g)		0,20	280	≤ 1000
NCD - 01 - flake	.38 Special	LRN (10,2 g)	*SORS 1202/95 (SAAMI)*	0,32	270	≤ 1000
	.45 Auto	FMJ (14,9 g);	*SORS 1202/95 (C.I.P.)*	0,34	250	≤ 1050



PISTOL AND REVOLVER AMMUNITION

Spherical powders

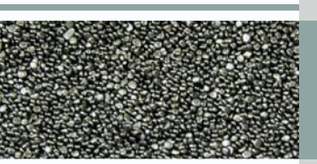
Type of powder	Main application	Bullet	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
SB - 425	.25 Auto	FMJ (3,25 g)	*TU 30/42 (SAAMI)*	0,086	230	≤ 1050
	.32 Auto	FMJ (4,6 g)		0,15	270	≤ 880
		JHP (4,6 g)				
SB - 434	10 mm Auto	FPJ (11,0 g)	*TU 2/94 (C.I.P.)*	0,56	330	≤ 2200
		JHP (11,7g)		0,52	320	
SB - 433	.357 Magnum	FMS (10,2 g)	*TU 3/94 (SAAMI)*	0,85	455	≤ 1800
	.44 Remington Magnum	FPJ (11,7 g)		1,78	525	≤ 2350
SB - 618	9 mm Luger	FMJ (7,45 g)	*TU 30/36*	0,36	340	≤ 2350
		FMJ (8,0 g)		0,31	330	
SB - 616	.380 Auto	JHP (6,1 g)	*TU 30/37*	0,20	280	≤ 1480
		FMJ (6,1 g)				
SB - 617	9 mm Makarov	FMJ (6,0 g)	*TU 30/35*	0,26	315	≤ 1600
SB - 619	.40 S&W	FPJ (11,7 g)	*TU 30/30*	0,36	300	≤ 2410
	.45 Auto	FMJ (14,9 g)		0,46	265	≤ 1450
SB - 621	.38 Special	LRN (10,2 g)	*TU 30/33*	0,26	265	≤ 1000
	.32 S&W Long	LRN (6,35 g)		0,15	235	≤ 900
	.38 S&W	LRN (9,4 g)		0,16	205	≤ 760
SB - 622	9 mm Rem Jet Mag	SP (2,9 g)	*TU 30/54*	1,0	650	≤ 2350

PISTOL AND RIFLE AMMUNITION

Single base powders

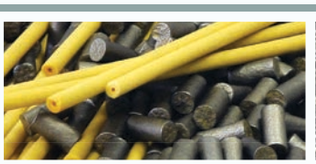
Type of powder	Main application	Bullet	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
NC - 03 - flake	7,62 x 25 mm, Tokarev	M30	*SORS* 1196	0,49	500	≤ 2200
	9 x 19 mm NATO	M882		0,39	375	≤ 2150
NC - 08 (VUfl) - tubular	7,62 x 39 mm Russian	M43 (Ball)	*SORS* 1165	1,60	718	≤ 2800
NC - 08 - tubular	7,62 x 39 mm	M67 (Ball)	*SORS* 1165	1,70	733	≤ 2500
NC - 01 - flake	5,56 x 45 mm	M200 (Blank)	*SORS* 1182	0,38	-	-
	7,62 x 39 mm	M43 (Blank)		0,95		
	7,62 x 51 mm	M82 (Blank)		0,60		
NCD - 02/M - tubular	7,62 x 51 mm NATO	M80	*SORS* 1252	2,90	874	≤ 3520
NCD - 02/R - tubular	7,62 x 54R mm Russian	M30J (Ball)	*SORS* 1199	3,00	785	≤ 2800
		M90 (API)		3,20	830	
		M78 (Tracer)		3,17	810	
NC - 05 - flake	7,9 x 57 mm Russian	M49	*SORS* 1169	3,00	720	≤ 2941
		M70 (Tracer)		2,90	705	
		M75 (Sniper)		3,00	720	



PISTOL AND RIFLE AMMUNITION

Spherical powders

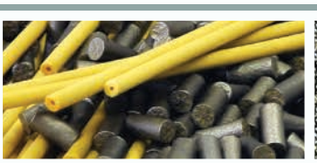
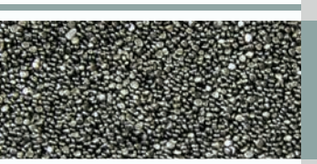
Type of powder	Main application	Bullet	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
SB - 507	7,62 x 25 mm, Tokarev	M30	*TU* 30/19	0,57	500	≤ 2200
SB - 620	9 x 19 mm NATO	M882	*TU* 30/15 *(MIL-P-3984J)*	0,36	375	≤ 2150
SB - 410	5,45 x 39 mm Russian	Ball (3,50g)	*TU* 30/8	1,48	900	≤ 3300
SB - 510	5,56 x 45 mm	M193 M196	*SORS 7127 (MIL-P-3984J)*	1,78	965	≤ 3660
SB - 511	5,56 x 45 mm	M855 (SS 109)	*SORS 8232 (MIL-P-3984J)*	1,68	914	≤ 3660
SB - 511/T	5,56 x 45 mm	M856	*TU 30/34 (MIL-P-3984J)*	1,55	900	≤ 3660
SB - 416	5,56 x 45 mm	M200 (blank)	*TU* 30/1	0,95	-	-
SB - 515	7,62 x 39 mm	M67 M78 M82	*SORS* 7268	1,70 1,65 1,70	733 706 733	≤ 2500
SB - 520	7,62 x 51 mm	M80 M61 M62	*SORS 7197 (MIL-P-3984J)*	2,90 2,87 2,85	834 812	≤ 3520
SB - 531	7,62 x 51mm; MATCH	M118	*TU* 30/24 *(MIL-P-3984J)*	2,75	777	≤ 3520
SB - 420	7,62 x 51 mm	M82 (blank)	*TU* 30/10 *(MIL-P-3984J)*	0,85	-	-
SB - 512	6,5 x 39 mm	M20	*SORS 9458*	1,80	725	≤ 3520



AIRCRAFT AND ANTI-AIRCRAFT AMMUNITION

Single base powders

Type of powder	Main application	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
NCD - 06 - tubular	12,7 x 99 mm "Browning"	*SORS* 1182 *(MIL-P-3984J)*			
	M33 (Ball)		15	887	≤ 3654
	M8 (API)				
	M17 (Tracer)			872	
	20 x 110 mm "Hispano"	*SORS* 1188			
	M57 (HEI-T)		29	850	≤ 3040
	M57 (HEI)				
	M57 (HE)				
	M60 (API)		32	840	
	M60 (API-T)				
	M60 (AP-T)		29		
NC - 26 - 7-perforated	12,7 x 108 mm "Dshk"	*SORS* 1210			
	B32 (API)		15	818	≤ 2942
	BZT 44 (API-T)				
NC - 261 - 7-perforated	14,5 x 115 mm	*TU 20/64*			
	B32 (API)		29	988	≤ 3335
	BZT (API-T)				
NCD - 07 - tubular	20 x 110 mm "Oerlikon"	*SORS* 1163			
	M62 (HEI-T)		29	845	≤ 3286
	M62 (HE-T)				
	M63 (API)		32	800	≤ 3860
	M63 (AP-T)				
NC - 42 - 7-perforated	23 x 115 mm "Gsh" 23L (HEI), 23 (API)	*SORS* 1257	37	720	≤ 2940
NC - 46 - 7-perforated	23 x 152 mm "ZU" 23/2	*SORS* 8070	76	970	≤ 3000
	23 x 152 mm (HE-T)				
NC - 47 - 7-perforated	30 x 165 mm "Gsh"	*SORS* 8424			
	(HEI)		122	860	≤ 3250
	(AP-T)				
	30 x 165 mm "AK 630"				
	(HEI)		120	888	≤ 3300
	(AP-T)		125		
	(HE-T)		120		

AIRCRAFT AND ANTI-AIRCRAFT AMMUNITION

Type of powder	Main application	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
NC - 48 - 7-perforated	30 x 165 mm "2A42 / 2A72 "	*SORS* 8665			≤ 3550
	(HEI)		121	960	
	(AP-T)		124	970	
	(HE-T)		121	960	
NC - 29 - tubular	30 mm M53/59, AE – T M69	*SORS* 1240	195	997	≤ 3138
NC - 39 - 7-perforated	30 mm AK 230, HEI M68	*SORS* 1630	190	1060	≤ 3138
NC - 52 - 7-perforated	30 x173 mm Mauser, HEI, TP-T	*TU 20/89*	164	1100	≤ 4300
NC - 53 - 14-perforated	37 mm, M39, HEI – T M39	*SORS* 1187	200	866	≤ 2750
NCD - 22 - 7-perforated	40 x 311mm "Bofors" L60	*SORS* 1205	310	880	≤ 3010
	(HE-T)				
	(TP)				
NC - 45 - tubular	40 x 365 mm "Bofors" L70	*SORS* 4065	480		≤ 3190
	(HE-T)			1005	
	(AP-T)			1025	
	(TP-T)				
NC - 36 - 7-perforated	57 mm x 348 mm, S-60/S-68 HE – T M66 (OR-281U)	*SORS* 1193	1180	1000	≤ 3190
NC - 49 - tubular	57 mm Bofors L70, HEI	*TU 20/76*	1200	1020	≤ 3300

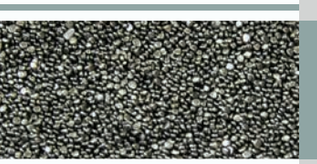
Spherical powders

Type of powder	Main application	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
SB - 710	12,7 x 99 mm "Browning"	*TU* 6/96 *(MIL-P-3984J)*	16	887	≤ 3650
	M33 (Ball)				
	M8 (API)				
	M17 (Tracer)				
SB - 711	12,7 x 99 mm	*TU* 30/28	16		≤ 3650
	M33 Sniper (42 g)			887	
	Solid blank (53 g)			845	
SB - 715	12,7 x 108 mm"DShK" B32 Solid	*TU* 30/43	16	805	≤ 2942
SB - 720	20 x 102 mm "Vulcan" M56	*TU* 30/20 *(MIL-P-3984J)*	36	1030	≤ 3790
SB - 712	12,7 x 108 mm B32 Solid	*TU* 30/29	16	818	≤ 2942

MORTAR SHELLS AMMUNITION

Double base powders

Type of powder	Main application	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
NGB - 051 - flake	**60mm** *for basic charges in cardboard case for increment charges in celluloid container*	*SORS* 1180			
	M73 - High explosive shells		B 4,2	74	-
			B+4 4,2	193	≤ 413
	M73 - Smoke shells		B 4,2	74	-
			B+4 4,2	193	≤ 413
	M67 - Illuminating shells		B+4 4,2	210	
	81mm *for basic charges in cardboard case*				
	M72 - High explosive shells		B 8,0	72	-
	M71 - High explosive shells		B 8,0	73	-
	M72 - Smoke shells		B 8,0	72	-
	M71 - Smoke shells		B 8,0	73	-
	M67 - Illuminating shells		B 7,6	-	-
	82mm *for basic charges in cardboard case*				
	M74 - High explosive shells		B 8,0	70	-
	M71 - High explosive shells		B 8,0	73	-
	M74 - Smoke shells		B 8,0	70	-
	M71 - Smoke shells		B 8,0	73	-
	M67 - Illuminating shells		B 7,6	-	-
NGB - 021 - flake	**81mm** *for increment charges in celluloid container*	*SORS* 1234			
	M72 - High explosive shells		B+6 13	287	≤ 618
	M72 - Smoke shells		B+6 13		
	M67 - Illuminating shells		B+4 14	244	≤ 422
	82mm *for increment charges in celluloid container*				
	M74 - High explosive shells		B+6 13		
	M72 - High explosive shells		B+6 13	284	≤ 618
	M74 - Smoke shells		B+6 13		
	M67 - Illuminating shells		B+4 14	244	≤ 422



MORTAR SHELLS AMMUNITION

Type of powder	Main application	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
NGB - 161 - strip	**120mm** *for basic charges in cardboard case*	*SORS* 1167			
	M62P8 - High explosive shells		B 35	70,5	-
	M64P3 - Smoke shells		B 35	70	-
	M87P1 - Smoke shells		B 35	70	-
NGB - 261 - flake	**120mm** *for increment charges in celluloid container*	*SORS* 1224			
	M62P8 - High explosive shells		B+6 75	322	≤ 940
	M64P3 - Smoke shells		B+6 76		
	M87P1 - Smoke shells		B+5 76	284	≤ 620
NGB - 034 - strip	**120mm, M38** *for basic charges in cardboard case*	*TU* 20/28			
	HE 843		B 31	-	-
NGB - 043 - strip	**160mm, M43** *for basic charges in cardboard case*	*TU* 20/29			
	HE 852		B 50	-	-
NGB - 301 - flake	**160mm, M160** *for increment charges in cotton bags*	*TU* 20/38			
	HE 853		B+3 290	267	≤ 672
NGB - 302 - flake	**160mm, M160** *for increment (long range) charges in cotton bags*	*TU* 20/39			
	HE 853		B+LR 1600	343	≤ 672
NGB - 095 - strip	**160mm, M160** *for basic charges in cardboard case*	*TU* 20/37			
	HE 853		B 60	-	-
NGB - M8M - disc, flake	**60/81/120/160mm** *increment charges*	Customer requirements			

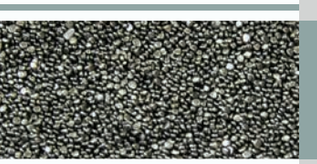
MORTAR SHELLS AMMUNITION

Extruded - modified powders

Type of powder	Main application	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
EMB - 021 tubular	**81mm** *for increment charges in celluloid container*	*SORS 8553*			
	M72 - High explosive shells		B+6 15	287	≤ 618
	M72 - Smoke shells		B+6 15		
	M67 - Illuminating shells		B+4 16	244	≤ 422
	82mm *for increment charges in celluloid container*				
	M74 - High explosive shells		B+6 15	284	≤ 618
	M72 - High explosive shells		B+6 15		
	M74 - Smoke shells		B+6 15		
	M67 - Illuminating shells		B+4 16	244	≤ 422
EMB - 261 tubular	**120mm** *for increment charges in celluloid container*	*SORS 8556*			
	M62P8 - High explosive shells		B+6 83	322	≤ 940
	M64P3 - Smoke shells		B+6 83		
	M87P1 - Smoke shells		B+5 83	304	≤ 620

Single base powders

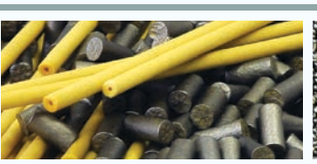
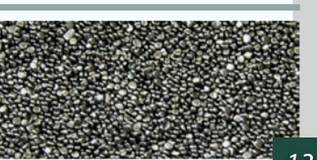
Type of powder	Main application	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
NC-311 tubular	**120mm M38** *for increment charges in celluloid container*	*TU* 20/34			
	HE 843		B+6 75	272	≤1010
NC-411 tubular	**160mm** *for increment charges in cotton bags*	*TU* 20/30			
	M43, HE 852		B+3 320	245	≤ 491



MORTAR SHELLS AMMUNITION - EXTENDED RANGE

Extruded - modified powders

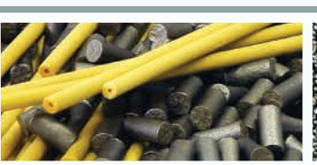
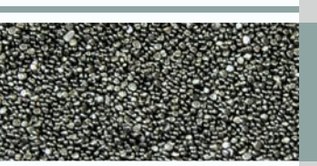
Type of powder	Main application	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
EMB - 171 long tubular	**60mm** *for basic charges in compact hermetic aluminium basic cartriges*	*SORS* 8814			
	MK 10 High explosive shells		B 6	74	-
	MK 10 Smoke shells				
	MK 10 Illuminating shells				
EMB - 271 tubular	**60mm** *for increment charges in celluloid container*	*TU 30/22*			
	MK 10 High explosive shells		B+6 9	283	≤ 618
	MK 10 Smoke shells				
	MK 10 Illuminating shells				
EMB - 181 tubular	**81/82mm** *for basic charges in compact hermetic aluminium basic cartriges*	*TU 20/21*			
	MK 11 High explosive shells		B 11	72/74	-
	MK 11 Smoke shells				
	MK 11 Illuminating shells				
EMB - 281 tubular	**81/82mm** *for increment charges in celluloid container*	*TU 20/22*			
	MK 11 High explosive shells		B+6 26	310	≤ 618
	MK 11 Smoke shells				
	MK 11 Illuminating shells		B+6 25	295	
EMB - 161A long tubular	**120mm** *for basic charges in compact hermetic aluminium basic cartriges*	*SORS* 8555			
	MK 12 High explosive shells		B 36	72	-
	MK 12 Smoke shells				
EMB - 291 tubular	**120mm** *for increment charges in celluloid container*	*TU 20/94*			
	MK 12 High explosive shells		B+7 120	400	≤ 1400

ARTILLERY AMMUNITION - POWDER CHARGES

Single base powders

Type of powder	Powder charge marking	Weapon/Projectile	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
NCD - 215 7 - perforated	Full charge	100 mm M44 M63 HE	*SORS* 8552	100 mm M44 CANNON		
				5500	900	≤ 2160
NCD - 17 long stick	Full charge	100 mm MT12, T12 OF -15	*SORS* 8062	100 mm MT-12 CANNON		
				400		
NCD - 26 7 - perforated			*SORS* 1231	3400	700	≤ 1860
NCD - 11 tubular	M2 (M67)	105mm M2A1 105mm M56 M1	*SORS* 1194 *(MIL-P-60318)*	105 mm M56 HOWITZER		
charge 1				240	201	min. 500
charge 2				300	221	-
NCD - 21 7 - perforated			*SORS* 1195 *(MIL-P-60318)*			
charge 3				80	244	-
charge 4				190	275	-
charge 5				370	321	-
charge 6				630	390	-
charge 7				1050	491	≤ 2160
NC - 50 7 - perforated	Full variable charge M02	105 mm M56/33 HEER M02	*SORS* 8809	105 mm M56/33 HOWITZER		
full				2230	675	≤ 2350
first				1880	580	-
second				1420	475	-
NC - 190 19 - perforated	Full charge M02 BB	105 mm M56/33 HEER-BB MO2	*SORS* 8810	105 mm M56/33 HOWITZER		
charge 1				2200	670	≤ 2650
charge 2						
NC - 38	Full variable charge M10	122 mm D-30 TF M10	*SORS* 1175	122 mm D-30 HOWITZER		
				3860	705	-
				4150	745	≤ 2450
NC - 38	Basic charge M10	122 mm D-30 TF M10GG	*SORS* 1175	122 mm D-30 HOWITZER		
				3960	715	≤ 2450

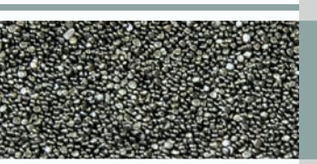



ARTILLERY AMMUNITION - POWDER CHARGES

Type of powder	Powder charge marking	Weapon/Projectile	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
NC - 27 tubular	Reduced variable charge M78	122 mm D-30 *OF-462*	*SORS* 1243	122 mm D-30 HOWITZER		
base charge				600	276	≥ 590
NC - 37 7 - perforated			*SORS* 1261			
charge 3				350	335	-
charge 2				900	417	-
charge 1				1450	493	-
reduced				2000	565	≤ 2450
NC - 43 7 - perforated	Full charge M78	122 mm D-30 *OF-462*	*SORS* 1259	122 mm D-30 HOWITZER		
				3600	690	≤ 2450
NC - 37 7 - perforated	Reduced variable charge	130 mm M46 OF-482	*SORS* 1261	130 mm M46 CANNON		
base charge No.4				3300	525	min.1079
increment charge No.3				4500	621	-
increment charge No.2				5800	705	≤ 2648
NCD - 19 19 - perforated	Full variable charge M92	130 mm M46 OF-482	*SORS 7651*	130 mm M46 CANNON		
first charge				10500	810	-
full variable charge				12600	930	≤ 3090
NCD - 19 19 - perforated	Full charge M93A	130 mm M-46 M93 BB	*SORS 7651*	130 mm M46 CANNON		
				11600	885	≤ 3090
NCD - 191 19 - perforated	Full variable charge M93	152 mm M84B1 OF-540	*SORS 7652*	152 mm M84B1 HOWITZER		
base charge				10300	665	-
full charge				12000	764	≤ 2350
NCD - 191 19 - perforated	Full variable charge M84B1	152 mm M84B1 M84 HE	*SORS 7652*	152 mm M84B1 HOWITZER		
base charge				10700	725	min.1100
full charge				12500	810	≤ 2950

ARTILLERY AMMUNITION - POWDER CHARGES

Type of powder	Powder charge marking	Weapon/Projectile	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
NCD - 19	Super charge M90	152 mm M84B1 M84 HE	*SORS 7651*	152mm M84B1 HOWITZER		
19 - perforated				16500	900	≤ 2950
NC - 27 tubular	Reduced variable charge Ž-546U	152 mm D-20 OF-540	*SORS 1243*	152mm D-20 HOWITZER		
charge 6				1250	282	min.735
NC - 37 7 - perforated						
charge 5			*SORS 1261*	560	335	-
charge 4				1120	383	-
charge 3				1680	425	-
charge 2				2800	511	≤ 2059
NCD - 13 tubular	M3A1	155 mm, M1 *(23 caliber)* 155 mm, M198 *(39 caliber)* M107	*SORS 1219 (MIL-P-60416A)*	155mm M1-23 CAL. HOWITZER		
zone 1				950	207	-
zone 2				1200	235	-
zone 3				1550	274	-
zone 4				1980	317	-
zone 5				2680	375	≥ 1930
NCD - 27 7 perforated	M4A2	155 mm, M1 *(23 caliber)* 155 mm, M198 *(39 caliber)* M107	*SORS 1218 (MIL-P-60397B)*	155mm M1-23 CAL. HOWITZER		
zone 3				2100	274	-
zone 4				2700	317	-
zone 5				3500	375	-
zone 6				4800	463	-
zone 7				6200	564	≤ 2648
NCD - 26 7 perforated	M119A1 M119A2 MONOBLOCK Z8	155 mm, M198 *(39 caliber)* 155 mm, CG-45 *(45 caliber)* 155 mm, NORA K *(52 caliber)* M107, ERFB	*SORS 1231 (MIL-P-14940B) (MIL-P-63404)*	155mm M185-39 CAL. HOWITZER		
				(M119A1)		
zone 8				9000	685	≤ 2206
				(M119A2)		
				9500	686	≤ 2275

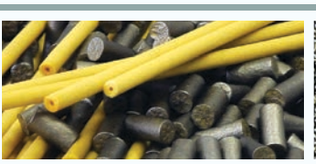
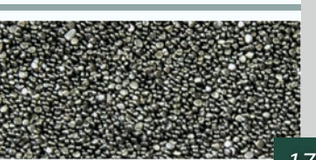


ARTILLERY AMMUNITION - POWDER CHARGES

Type of powder	Powder charge marking	Weapon/Projectile	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
NCD - 191 19 perforated zone 9	M203, MONOBLOCK Z9	155 mm, M198 *(39 caliber)* 155 mm, CG-45 *(45 caliber)* 155 mm, NORA K *(52 caliber)* M107 ERFB, HEER	*SORS 7652*	155mm M198-39 CAL. HOWITZER (M203)		
				13000	825	⩽ 3250
NCD - 191 19 perforated base charge (zone 8)	M2	155 mm, M198 *(39 caliber)* 155 mm, CG-45 *(45 caliber)* M107 ERFB, HEER	*SORS 7652*	155mm GC-45 CAL. HOWITZER		
				10500	725	-
NCD - 191 19 perforated full charge (zone 9)				13500	810	⩽ 2950
NCD - 19 19 perforated zone 10	M11, MONOBLOCK Z10	155 mm, CG-45 *(45 caliber)* 155 mm, NORA K *(52 caliber)* ERFB-BB, HEER-BB	*SORS 7651*	155mm NORA B-52 - 52 CAL. (M11)		
				17000	925	⩽ 3300

Double base powders

Type of powder	Powder charge marking	Weapon/Projectile	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
NGH - 215 long stick	Full charge	100 mm M44 TF M63	*SORS 1170*	M44 CANNON		
				5500	900	⩽ 2940
NGH - 285 long stick	Full variable charge	130 mm M46 OF-482	*SORS 1268*	M46 CANNON		
first charge				11000	810	-
full charge				13000	930	⩽ 3090
NGH - 295 long stick	Full variable charge	152 mm D-20 OF-540	*SORS 7340*	152mm D-20 HOWITZER		
first charge				7700	606	-
full charge				8350	655	⩽ 2300
NGH - 305 long stick	M22, MONOBLOCK Z10	155 mm, ERFB-BB, HEER-BB	*SORS 9566*	155mm NORA B-52 - 52 CAL.		
				16000	935	⩽ 3250

TANK AMMUNITION

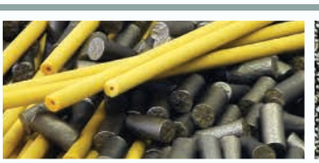
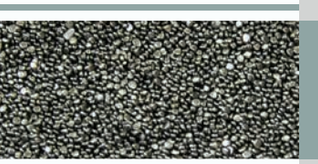
Single base powders

Type of powder	Main application	Standard	Weight ~ ω [g]	Velocity V [m/s]	Pressure Pm [bar]
NCD - 24 7 perforated	76 mm, M42A1 HE	*SORS 7254*	1700	823	≤ 2700
NC - 38 7 perforated	100 mm, HE M63	*SORS 1175*	2100	600	≤ 1962
NC - 18 - long stick		*SORS 7118*	200		
NC - 38 7 perforated	100 mm, HEAT-TM69	*SORS 1175*	3900	900	≤ 2353
NC - 18 - long stick		*SORS 7118*	200		
NCD - 192 19 perforated	100 mm, PKO	*SORS 8562*	6000	1375	≤ 3200
NCD - 192 19 perforated	105 mm L7, APFSDS	*SORS 8562*	6100	1475	≤ 4275
NC - 44 7-peforated	125 mm	*SORS 4108*	2200	850	≤ 3432
NC - 16 - long stick	Main charge for tank gun 125 mm	*SORS 4109*	2900		
NC - 44 7 perforated	125 mm	*SORS 4108*	2200	1785	≤ 4590
NC - 16 - long stick	Front charge for sub-caliber projectile APFSDS - T	*SORS 4109*	2900		
NC - 161 - long stick		*SORS 4110*	3500		

IGNITION POWDERS FOR ARTILLERY

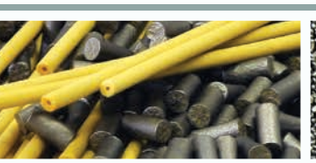
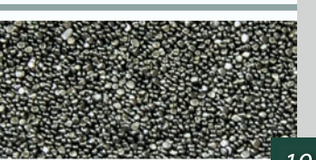
Single base powders

Type of powder	Main application
NC - 70 tubular	152 mm, OF-540 *(Russian);* Powder charges M90; M93
	155 mm M107 HE; Powder charges M4A2; M3A1; M119A1; M203; M11
NC - 80 long stick central	152 mm, OF-540 *(Russian);* Powder charges M90; M93
	155 mm, HE M107; Powder charges M119A1 (Zone 8); M203 (Zone 9); M11 (Zone 10)
NC - 122 - long stick central	122 mm, OF- 462; Powder charge M78
NC - 123- long stick central	130 mm, OF-482 *(Russian);* Powder charge M92
NC - 125 - long stick central	152 mm, OF- 540; Powder charge Ž 546U

GRENADE LAUNCHERS AMMUNITION

Single base, Double base and Spherical powders	
Type of powder	**Main application**
EMB - 021 extruded modified	30 mm AGL *(Russian) - for Machine Gun* M93 VG; M93 TG; M93 VMG
SB - 508 spherical	40 mm HE Grenade VOG-25 Practice grenade VOG-25 TP
NC - 073M single base-tubular	40 mm Grenade launcher GP 25 *(Russian)*, and attached to the 7,62mm AK 47, 40mm VOG 25 (HE)
NGB - 09 double base-flakes	30 mm AGS-17 - for Machine Gun 40 x 46 mm Grenade launcher M-203
NGB - 038 double base-strips	PG - 7, PG -7V, PG7VM
NGB - 042 double base-strips	PG 7V, PG 7VM

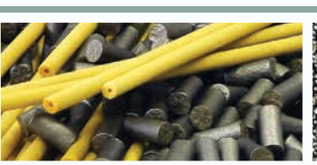
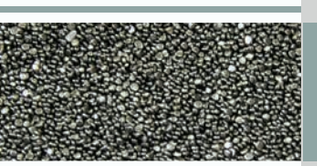
SPORT AND SPECIAL POWDERS

Single base powders

Type of powder	Main application
NC - 14 tubular	.22 SHORT (Bullet 1,90 g) .22 LONG RIFLE (Bullet 2,56 g) .22 EXTRA LONG (Bullet 2,56 g)
NC - 074 tubular	9 mm (.380) Blank Cartridge *for starter and alarm revolver*
NC - 073 tubular	9 mm PA Blank Cartridge *for starter and alarm pistols*

Spherical powders

Type of powder	Main application
SB - 411	Special Cartridge for industrial purposes 5,6/15; 6,3/10; 6,3/16; 6,3/18 9x17 mm *(cattle killer)* 9x19 mm *(for light bullet 4,0 g)*
SB - 412	Cartridges 10x22 mm T, projectiles with rubber ball, 9 mm PA *(blank)*

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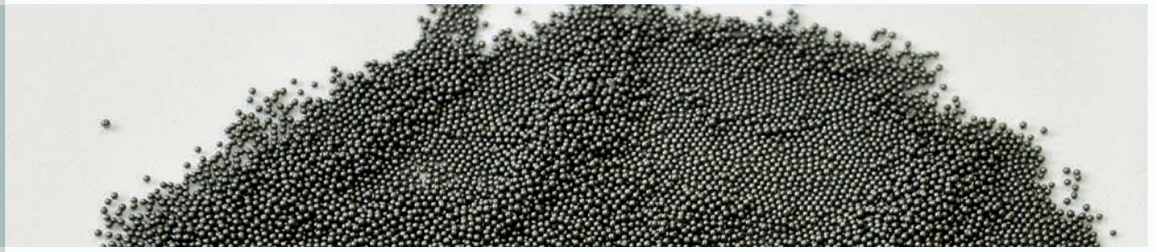

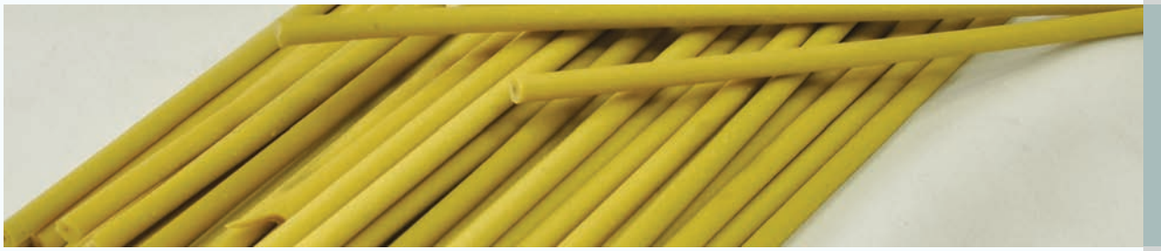

PROPELLANTS POWDERS 2025

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