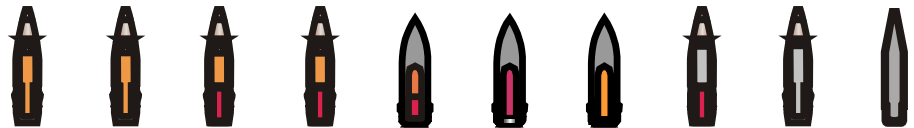




AMMUNITION
20, 23, 30, 37, 40 and 57 mm



AMMUNITION 20mm x 110 FOR ANTI-AIRCRAFT GUN 20mm M55, HS 404 AND HS 804 "HISPANO"



NATO DESIGNATION	HE	HEI	HE-T	HEI-T	API-T	API	AP-T	TP-T	TP	BLANK
WEIGHT										
projectile (g)	122	122	122	122	142	142	142	122	122	min 70
propellant (g)	29	29	29	29	32	32	32	29	29	29
explosive (g)	12.1	12.1	6.1	6.1	none	none	none	none	none	none
complete round (g)	246	246	246	246	265	265	265	246	246	195
EXPLOSIVE TYPE	RDX	RDX+AL	RDX	RDX+AL	none	none	none	none	none	none
LENGHT (mm) complete round	184	184	184	184	182	182	182	184	184	184
MUZZLE VELOCITY (m/s)	845	845	845	845	844	844	844	845	845	none
SELF-DESTRUCTION TIME (s)	4,5 - 8	4,5 - 8	4,5 - 8	4,5 - 8	none	none	none	none	none	none
TRACER BURNING TIME (s)	-	-	3.5	3.5	3.5	3.5	-	3.5	-	-

PACKING:

100 rounds in wooden case
Case gross mass: 34kg
W/C dimensions: 660mm x 232mm x 200mm
Case volume: 0,03m³



AMMUNITION 20mm x 110RB FOR ANTI-AIRCRAFT GUN 20mm MK-IV "OERLIKON"



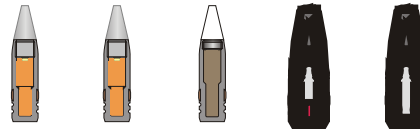
NATO DESIGNATION	HE	HEI	HE-T	HEI-T	API-T	API	AP-T	TP-T	TP	BLANK
WEIGHT										
projectile (g)	119	119	122	122	142	142	142	122	119	min 70
propellant (g)	29	29	29	29	32	32	32	29	29	29
explosive (g)	12.1	12.1	6.1	6.1	none	none	none	none	none	none
complete round (g)	246	246	246	246	265	265	265	246	246	195
EXPLOSIVE TYPE	RDX	RDX+AL	RDX	RDX+AL	none	none	none	none	none	none
LENGHT (mm) complete round	184	184	184	184	182	182	182	184	184	184
MUZZLE VELOCITY (m/s)	845	845	845	845	844	844	844	845	845	none
SELF-DESTRUCTION TIME (s)	4,5 - 9	4,5 - 9	4,5 - 9	4,5 - 9	none	none	none	none	none	none
TRACER BURNING TIME (s)	-	-	3.5	3.5	3.5	-	3.5	3.5	-	-

PACKING:

100 rounds in wooden case
Case gross mass: 34kg
W/C dimensions: 600mm x 232mm x 200mm
Case volume: 0,030m³



AMMUNITION 23mm x 115 FOR AIRCRAFT GUN GSh-23L AND GSh-23LU



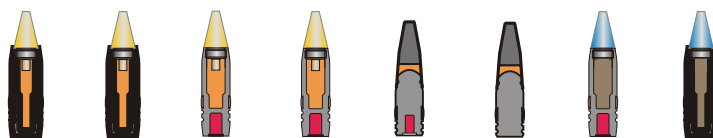
NATO DESIGNATION	HE	HEI	TP	API-T	API
WEIGHT					
projectile (g)	174	174	174	168	174
propellant (g)	37	37	37	37	37
explosive (g)	16.3	16.3	none	none	none
complete round (g)	329	329	331	321	331
EXPLOSIVE TYPE	RDX	RDX+AL	none	none	none
LENGHT (mm) complete round	197.9	197.9	197.9	197.8	197.8
MUZZLE VELOCITY (m/s)	720	720	720	720	720
TRACER BURNING TIME (s)	none	none	none	3,5	none

PACKING:

100 rounds in wooden case
Case gross mass: 42kg
W/C dimensions: 705mm x 250mm x 202mm
Case volume: 0,035m³



AMMUNITION 23mm x 152B FOR ANTI-AIRCRAFT GUN ZU-2 AND ZSU-4



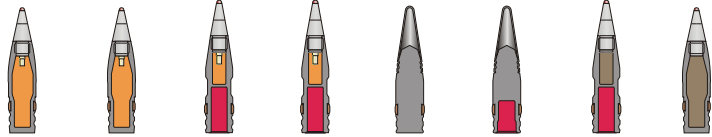
NATO DESIGNATION	HE	HEI	HE-T	HEI-T	API-T	API	TP-T	TP
WEIGHT								
projectile (g)	182	182	190	190	190	190	190	182
propellant (g)	78	78	78	78	78	78	78	78
explosive (g)	19,6	19,6	16,3	16,3	5	5	none	none
complete round (g)	440	440	450	450	450	450	450	440
EXPLOSIVE TYPE	RDX	RDX+AL	RDX	RDX+AL	none	none	none	none
LENGHT (mm) complete round	236	236	236	236	236	236	236	236
MUZZLE VELOCITY (m/s)	970	970	970	970	970	970	970	970
SELF-DESTRUCTION TIME (s)	5,6-11,2	5,6-11,2	5,6-11,2	5,6-11,2	none	none	none	none
TRACER BURNING TIME (s)	none	none	3.5	3.5	3.5	-	3.5	-

PACKING:

80 rounds in wooden case
 Case gross mass: 44kg
 W/C dimensions: 688mm x 286mm x 229mm
 Case volume: 0,045m³



AMMUNITION 30mm x 165 FOR ANTI-AIRCRAFT GUN 30mm AO 18



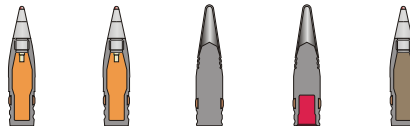
NATO DESIGNATION	HE	HEI	HE-T	HEI-T	AP	AP-T	TP-T	TP
WEIGHT								
projectile (g)	389	389	385	385	400	400	385	389
propellant (g)	121	121	121	121	126	126	121	121
explosive (g)	49	49	11.5	11.5	none	none	none	none
complete round (g)	839	839	835	835	853	853	835	839
EXPLOSIVE TYPE	RDX	RDX+AL	RDX	RDX+AL	none	none	none	none
LENGHT (mm) complete round	291	291	291	291	292	292	292	292
MUZZLE VELOCITY (m/s)	890	890	890	890	890	890	890	890
SELF-DESTRUCTION TIME (s)	13-19	13-19	13-19	13-19	none	none	none	none
TRACER BURNING TIME (s)	none	none	10	10	none	3.5	10	none

PACKING:

30 rounds in wooden case
Case gross mass: 37kg
W/C dimensions: 576mm x 338mm x 218mm
Case volume: 0,042m³



AMMUNITION 30mm x 165 FOR AIRCRAFT GUN 30mm GSh 301



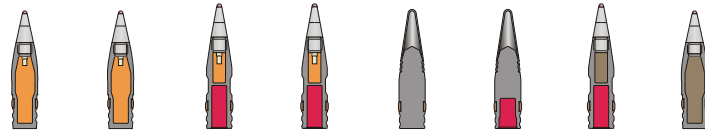
NATO DESIGNATION	HE	HEI	AP	AP-T	TP
WEIGHT					
projectile (g)	389	389	400	400	389
propellant (g)	121	121	126	126	121
explosive (g)	49	49	none	none	none
complete round (g)	840	840	850	850	840
EXPLOSIVE TYPE	RDX	RDX+AL	none	none	none
LENGHT (mm) complete round	290	290	292	292	290
MUZZLE VELOCITY (m/s)	860	860	860	860	860
TRACER BURNING TIME (s)	none	none	none	3.5	none

PACKING:

30 rounds in wooden case
Case gross mass: 37kg
W/C dimensions: 576mm x 338mm x 218mm
Case volume: 0,042m³



AMMUNITION 30mm x 165 FOR ANTI-AIRCRAFT GUN 30mm 2A72, 2A42 AND 2A38M



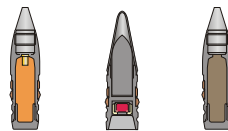
NATO DESIGNATION	HE	HEI	HE-T	HEI-T	AP	AP-T	TP-T	TP
WEIGHT								
projectile (g)	385	389	385	385	400	400	385	389
propellant (g)	121	121	121	121	126	126	121	121
explosive (g)	49	49	11.5	11.5	none	none	none	none
complete round (g)	833	833	835	835	853	853	835	833
EXPLOSIVE TYPE	RDX	RDX+AL	RDX	RDX+AL	none	none	none	none
LENGHT (mm) complete round	292	292	291	291	292	292	291	291
MUZZLE VELOCITY (m/s)	960	960	960	960	970	970	960	960
SELF-DESTRUCTION TIME (s)	7.5-14.5	7.5-14.5	7.5-14.5	7.5-14.5	none	none	none	none
TRACER BURNING TIME (s)	none	none	10	10	none	3.5	10	none

PACKING:

30 rounds in wooden case
Case gross mass: 37kg
W/C dimensions: 576mm x 338mm x 218mm
Case volume: 0,042m³



AMMUNITION 30mm x 210B FOR ANTI-AIRCRAFT GUN 30mm AK-230



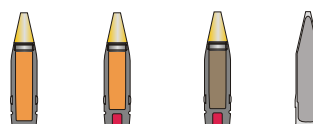
NATO DESIGNATION	HEI	AP-T	TP
WEIGHT			
projectile (g)	356	350	356
propellant (g)	190	190	190
explosive (g)	31.1	none	none
complete round (g)	1066	1050	1066
EXPLOSIVE TYPE	RDX+Al	none	none
LENGHT (mm) complete round	304	304	304
MUZZLE VELOCITY (m/s)	1060	1095	1060
SELF-DESTRUCTION TIME (s)	12-17	none	none
TRACER BURNING TIME (s)	none	min. 2	none

PACKING:

24 rounds in wooden case
Case gross mass: 37kg
W/C dimensions: 670mm x 355mm x 176mm
Case volume: 0.041m³



AMMUNITION 30mm x 220 FOR ANTI-AIRCRAFT GUN 30/2 M53, 53/59 (CS)



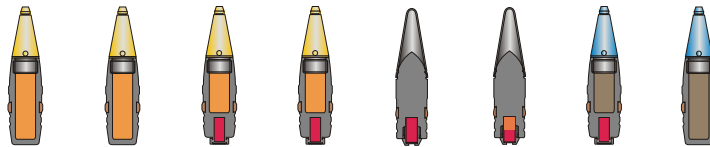
NATO DESIGNATION	HEI	HEI-T	TP-T	BLANK
WEIGHT				
projectile (g)	435	435	435	min 250
propellant (g)	195	195	195	195
explosive (g)	40,8	35,7	none	none
complete round (g)	1140	1140	1140	min. 960
EXPLOSIVE TYPE	RDX+AL	RDX+AL	none	none
LENGHT (mm) complete round	331	331	331	331
MUZZLE VELOCITY (m/s)	997	997	997	-
SELF-DESTRUCTION TIME (s)	9 - 13	9 - 13	none	none
TRACER BURNING TIME (s)	none	4	4	none

PACKING:

40 rounds in wooden case
Case gross mass: 61kg
W/C dimensions: 642mm x 384mm x 298mm
Case volume: 0,073m³



AMMUNITION 37mm x 252 FOR ANTI-AIRCRAFT GUN 37mm M39 (SU)



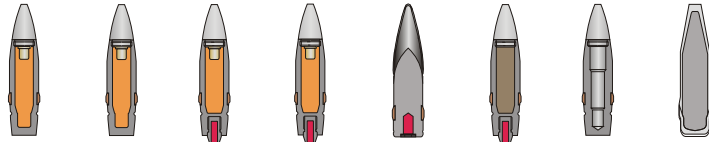
NATO DESIGNATION	HE	HEI	HE-T	HEI-T	AP-T	API-T	TP-T	TP
WEIGHT								
projectile (g)	732	732	732	732	760	732	732	732
propellant (g)	200	200	200	200	200	200	200	200
explosive (g)	40	40	38	38	none	none	none	none
complete round (g)	1480	1480	1480	1480	1480	1480	1480	1480
EXPLOSIVE TYPE	RDX	RDX+AL	RDX	RDX+AL	none	none	none	none
LENGHT (mm) complete round	385	385	385	385	385	385	385	385
MUZZLE VELOCITY (m/s)	850	850	850	850	850	850	850	850
SELF-DESTRUCTION TIME (s)	7-14	7-14	7-14	7-14	none	none	none	none
TRACER BURNING TIME (s)	none	none	6	6	6	6	6	none

PACKING:

30 rounds in wooden case
 Case gross mass: 55kg
 W/C dimensions: 680mm x 455mm x 258mm
 Case volume: 0,079m³



AMMUNITION 40mm x 311 FOR ANTI-AIRCRAFT GUN 40mm L/60



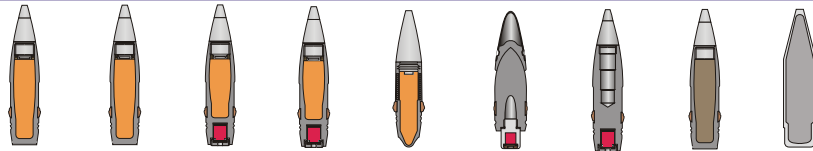
NATO DESIGNATION	HE	HEI	HE-T	HEI-T	AP-T	TP-T	TP	BLANK
WEIGHT								
projectile (g)	910	910	910	910	900	910	910	800
propellant (g)	310	310	310	310	320	310	310	310
explosive (g)	78	78	78	78	none	78	none	none
complete round (g)	2100	2100	2100	2100	2120	2100	2100	1900
EXPLOSIVE TYPE	RDX	RDX+AL	RDX	RDX+AL	none	none	none	none
LENGHT (mm) complete round	447	447	447	447	447	447	447	447
MUZZLE VELOCITY (m/s)	880	880	880	880	880	880	880	none
SELF-DESTRUCTION TIME (s)	8-12	8-12	8-12	8-12	none	8-12	8-12	none
TRACER BURNING TIME (s)	none	none	5	5	3.5	5	none	none

PACKING:

16 rounds in wooden case
Case gross mass: 46kg
W/C dimensions: 564mm x 343mm x 318mm
Case volume: 0,061m³



AMMUNITION 40mm x 365 FOR ANTI-AIRCRAFT GUN 40mm L/70 "BOFORS"



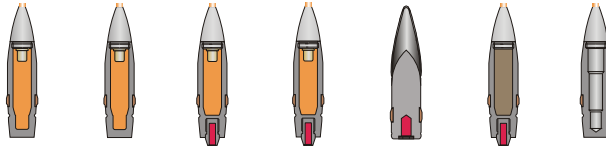
NATO DESIGNATION	HE	HEI	HE-T	HEI-T	PFHE	AP-T	TP-T	TP	BLANK
WEIGHT									
projectile (g)	964	964	964	964	880	930	964	964	920
propellant (g)	480	480	480	480	480	480	480	480	480
explosive (g)	95	95	83	83	83	none	none	none	none
complete round (g)	2500	2500	2500	2500	2420	2470	2500	2500	2450
EXPLOSIVE TYPE	RDX	RDX+AL	RDX	RDX+AL	RDX	none	none	none	none
LENGHT (mm) complete round	535	535	535	535	534.5	497	535	535	535
MUZZLE VELOCITY (m/s)	1005	1005	1005	1005	1025	1025	1005	1005	none
SELF-DESTRUCTION TIME (s)	8-13	8-13	8-13	8-13	3.5-10	none	none	none	none
TRACER BURNING TIME (s)	-	-	4	4	-	4	4	-	-

PACKING:

20 rounds in wooden case
Case gross mass: 65kg
W/C dimensions: 650mm x 393mm x 363mm
Case volume: 0,092m³



AMMUNITION 57mm x 348 FOR SELF-PROPELLED ANTI-AIRCRAFT GUN 57mm S/68 AND S/60



NATO DESIGNATION	HE	HEI	HE-T	HEI-T	AP-T	TP-T	TP
WEIGHT							
projectile (g)	2850	2850	2850	2850	2850	2850	2850
propellant (g)	1180	1180	1180	1180	1180	1180	1180
explosive (g)	153	153	153	153	none	none	none
complete round (g)	6350	6350	6350	6350	6350	6350	6350
EXPLOSIVE TYPE	RDX	RDX+Al	RDX	RDX+Al	none	none	none
LENGTH (mm) complete round	max 536,61	max 536,61	max 536,61	max 536,61	max 536,61	max 536,61	max 536,61
MUZZLE VELOCITY (m/s)	1000	1000	1000	1000	1000	1000	1000
SELF-DESTRUCTION TIME (s)	13 - 17	13 - 17	13 - 17	13 - 17	none	none	none
TRACER BURNING TIME (s)	none	none	10	10	10	10	none

PACKING:

5 rounds in wooden case
Case gross mass: 40kg
W/C dimensions: 694mm x 605mm x 204mm