

# FLY-K MUNITION FAMILY



Fly-K is a weapon system firing ammunition without signature. Due to its revolutionary propulsion system it shows excellent stealth capabilities. No noise, no smoke, no flash, no thermal signature and no smell enable the user to engage the enemy without betraying his own position.

The Fly-K Ammunition family is composed of a large variety of lethal and non-lethal payloads, increasing versatility and capabilities on the battlefield.

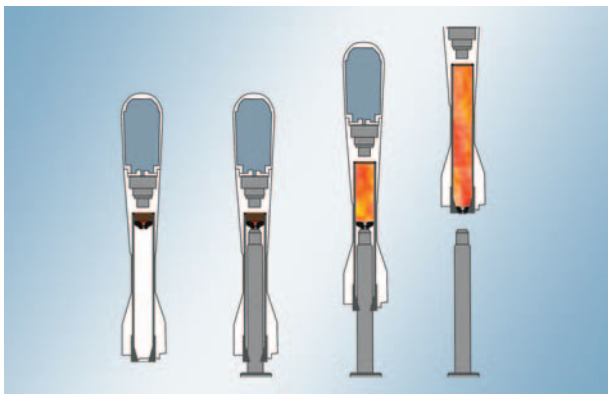
High explosive, target practice with tracer, smoke, visual illuminating and IR-illuminating rounds are available. Rheinmetall is currently developing a proximity fuze and introduces its renowned red phosphorous composition into the smoke cartridge.

Insensitive high explosive, blast enhanced, underwater, jammer and hook rounds are possible.

The low weight of the ammunition (max. 780 g), its high efficiency, as well as its precision, permits better mobility and increased fire power.

The rounds have a muzzle safety distance of 35 meters and a minimum arming distance of 80 meters. This feature brings safety to the user and still enables him to compete in close combat situations.

Technical Data					
	HE (M101)	SMOKE (M105)	ILLUM (M106)	IR-ILLUM (M116)	PRACTICE (M108)
Projectile weight	780 g	740 g	680 g	680 g	805 g
Projectile diameter	51 mm	51 mm	47 mm	47 mm	51 mm
Projectile length	312 mm	312 mm	384 mm	384 mm	312 mm
Maximum range	800 m	800 m			
Expelling range			550 m	550 m	800 m
Expelling height			190 m	190 m	
Muzzle velocity Vo	97 m/sec	97 m/sec	97 m/sec	97 m/sec	99 m/sec
Range dispersal	<0.3%	<0.3%	<0.3%	<0.3%	<0.3%
Lateral dispersal	<0.16%	<0.16%	<0.16%	<0.16%	<0.16%
Temperature range					
Storage	-46°C to +71°C	-46°C to +71°C	-46°C to +71°C	-46°C to +71°C	-46°C to +71°C
Function	-31°C to +51°C	-31°C to +51°C	-31°C to +51°C	-31°C to +51°C	-31°C to +51°C
Payload	140 g compound B	180g WP	135 g	135 g	75 g smoke tracer
Lethal radius	16 m				
Fragments	580				
Burn time		>20 sec	>25 sec	>25 sec	
Illuminous intensity			155,000 cd	40 W/sr at 770 nm	
Bandwidth				700-1,100 nm	
Fuze	impact	impact	delay	delay	delay



#### Key Characteristics

- Launch noise less than 52 dB at a distance of 100 m
- No thermal signature
- No smoke
- No muzzle flash
- Sustained fire possible – weapon does not heat up
- Low-weight

#### Status

- Combat proven