

UNIVERSAL UAV AMMUNITION

OFBPK — a high-explosive fragmentation ammunition with a cumulative (shaped charge) effect, designed for unmanned aerial systems to effectively engage a wide range of targets.

Designed for light and medium drop-payload UAVs, this ammunition stabilizes in flight from an altitude of 50 m and operates effectively at heights of 70–250 m. The inertial system ensures reliable detonation upon impact at angles up to 30° from the normal, while two built-in safeties guarantee operator safety during handling. Additionally, the weatherproof design maintains peak performance across temperatures from -30°C to +40°C.

KEY TASKS & ADVANTAGES

- Thanks to its cumulative action, it penetrates up to 120 mm of armor, reliably neutralizing both armored and unarmored enemy vehicles.
- A powerful fragmentation effect featuring 840 metal spheres provides an effective casualty radius of up to 10 meters from the detonation epicenter.
- A payload of 370 grams of high-performance explosive (TGA) allows for the efficient destruction of field fortifications and shelters.
- The inertial initiation method ensures detonation on contact even at sharp impact angles (up to 30°), compensating for drop trajectory variances.
- A two-level safety system prevents accidental activation, ensuring maximum safety for the crew during installation and deployment.
- Its optimal weight (1.52 kg) ensures compatibility with most modern drone drop systems, while an operating altitude of up to 250 meters helps pilots bypass enemy EW.



Основні льотно-технічні характеристики:

Тип БпЛА	Intended for engaging enemy manpower, armored and unarmored vehicles, as well as destroying field fortifications
Type of action	High-explosive fragmentation with cumulative (shaped charge) effect
Minimum stabilization & activation height	50 m
Operating height	70-250 m
Operating conditions	Temperature: -30°C to +40°C; Humidity: ≤ 90% (at t ≥ 0°C)
Total length	352 mm
Warhead length	214,6 mm
Warhead diameter	73,2 mm
Tail length	161 mm
Tail fin diameter	73,2 mm
Total weight	1.52 kg (± 0.01 kg)
Explosive weight (TGA)	370 g (± 0.01 kg)
Functional impact angle	Up to 30° from vertical normal
Armor penetration	Up to 120 mm of armor (hole diameter ≥ 10 mm)
Fragmentation characteristics	840 metal spheres (5.0 mm diameter), total weight 420 g
Effective casualty radius	Up to 10 m
Reusable	No
Number of safeties	2
Initiation method	Inertial