

BR-1-57 mm Air-to-surface rocket launcher



Aircraft Rocket BR-1-57

BR-1-57 rocket projectile is the Rocket of high explosive effect, 57 mm caliber and assembled with impact fuze, type UTI-1. Purpose of this rocket is destruction of air targets at the altitudes up to 30.000 m it is the modern aircraft amament.

BR-1-57 rocket with the UTI-1 fuze can also be used for the ground targets destruction (aircraft, cars, warehouses and similar military objects).

BR-1-57 rocket with the fuze UTI-1 is fired from the tube launchers (with rear part opened) , which are placed in the honeycomb launchers L-57.

Tehnickal data

Caliber: 57mm

Length of the rocket with the fuze: 882mm

Mass of the assembled rocket: 3.86 ± 0.06 kg

Mass of the explosive charge: 0.285 kg

Ballistic characteristics

Maximum speed: 673 to 617 rn/s

Flying time for the distance of 1000 m: 1.89 to 2.19s

Maximum allowed pressure in the rocket chamber: 380kg/cm2



BR-1-57



INITIATION BY MEANS
OF PLUG

BR-1-57 P1



INITIATION BY MEANS OF AUTOMATIC
SWITCHING ON THE CIRCUIT

Aircraft Rocket BR-2-57

Rocket BR-2-57 is of the hollow charge effect. It is 57 mm caliber assembled with the impact inertial UTI-2 fuze. The rocket is used to destroy armoured ground targets, tanks, self-propelled artillery, armoured vehicles, armoured personnel carriers etc. It serves as the rocket armament of modern jet airplanes. Rocket BR-2-57 is launched with the UTI-2 fuze from the launcher tube (with the opened rear ends) which is assembled in honeycomb rocket package.

Tehnical data

Caliber: 57 mm

Length of the rocket with the fuze: 824 to 835 mm

Mass of completely assembled rocket: 3.64 kg

Mass of the explosive charge: 0.29 kg

Thickness of the pierced armour when the rocket strikes at the angle of 300° from the vertical: 100 to 150 mm

Rocket firing: Electric, with two electric igniters

Ballistic characteristics

Maximum velocity: 563 to 620 m/s

Time of rocket flight up to the distance of 1000 m: 2.461 to 2.179 s

Maximum allowable pressure in the (rocket) combustion chamber: 375 kg/cm²



BR-1-57



INITIATION BY MEANS
OF PLUG

BR-1-57 P1



INITIATION BY MEANS OF AUTOMATIC
SWITCHING ON THE CIRCUIT

Aircraft Rocket cal.57 mm BR-20-57 P1

General

In addition to the aircraft rockets BR-1-57 mm and BR-2-57 mm manufactured to date, "Krusik" has developed the production of a new service rocket, named the Universal BR-20-57 P1, and corresponding practice rocket.

BR-20-57 P1 nun rocket is a rocket of a combined hollow-charge and fragmentation effect, so that it incorporates the application of the rocket BR-1-57 mm, which means that a single rocket type can be employed in different fighting missions. The arming so far has to be performed with a specific type of rockets (either hollow-charge or high-explosive), depending on a particular combat action, which is now no longer necessary, owing to the new universal-employment rocket. This practically provides multiple employment advantages.

Technical characteristics

The aircraft rocket of a hollow-charge and fragmentation effect BR-20-57 P1 is a system of Cal.57 mm unguided air-to-ground and air-to-air rockets and is used for mass arming of aircrafts. The rocket includes a warhead with hollow charge and fragmentation effect and impact type UTI-2 fuze and superquick-inertial action. The rockets are used to annihilate air targets at altitudes of up to 30.000 m, for assault actions against mobile and stationary armoured targets such as tanks, armoured vehicles, carriers, light weapon and vehicles, aircrafts on the ground and personnel around the stated combat means.

Technical data

Rocket mass: 4.5 kg
Explosive charge mass: 0.32 kg
Propellant mass: 1.13 kg
Penetration: 160-200 m
Quantity of fragments on burst: 200 pcs
Killing range: 18-20 m (40 m circle)
Muzzle safety: 110
Packing of 8 rockets per wooden case
Special air-tight packaging for the fuze
Warranty period: 5 years



BR-1-57 V, BR-2-57 V and BR-20-57 V Practice Rockets

The Practice rockets BR-1-57 V, BR-2-57 V and BR-20-57 V are used for training of pilots when firing 57 mm caliber rockets.

The warhead and the fuze are inert (made of metal). Its mass, centre of gravity and shape are matched to live rockets, so that its ballistic trajectories are identical to those of the service rockets.

Packing of 12 rockets per wooden case with the total mass of packing amounting to 67 kg. Warranty period is 5 years.

