



S-13-T

The S-13 unguided aircraft rockets employed from aircraft and helicopters.

The S-13 unguided aircraft rockets are classified as air-to-ground rockets.

A number of rocket versions with different warheads are available:

- S-13-T – with two-module concrete-piercing HE warhead;
- S-13-OF – with HE fragmentation warhead;
- S-13DF – with enhanced FAE warhead.

The rockets are intended to engage different types of ground targets (from manpower to armored materiel and hardened shelters).

S-13-T

The rocket is designed to destroy aircraft in different types of shelters, including reinforced ones, command posts, demolish runways and defeat communications posts and other facilities.

The S-13-T rocket has been developed to enhance the lethality of the S-13 through the use of two separable autonomous warheads: the first warhead is of penetrating type (similar to the S-13's warhead), while the second one is a HE warhead. Design solutions incorporated in the S-13-T rocket have enabled the designers not only to increase the weight of explosive delivered behind a barrier, but also ensure the optimal spacing between warhead blasting zones behind the barrier, which dramatically increases the effectiveness of the S-13-T compared with the S-13, without sacrificing penetration capability.

The S-13-T rocket development relies on the modularity principle: the second warhead (second module) can be either removed (then the S-13-T turns into the S-13) or replaced with another warhead.

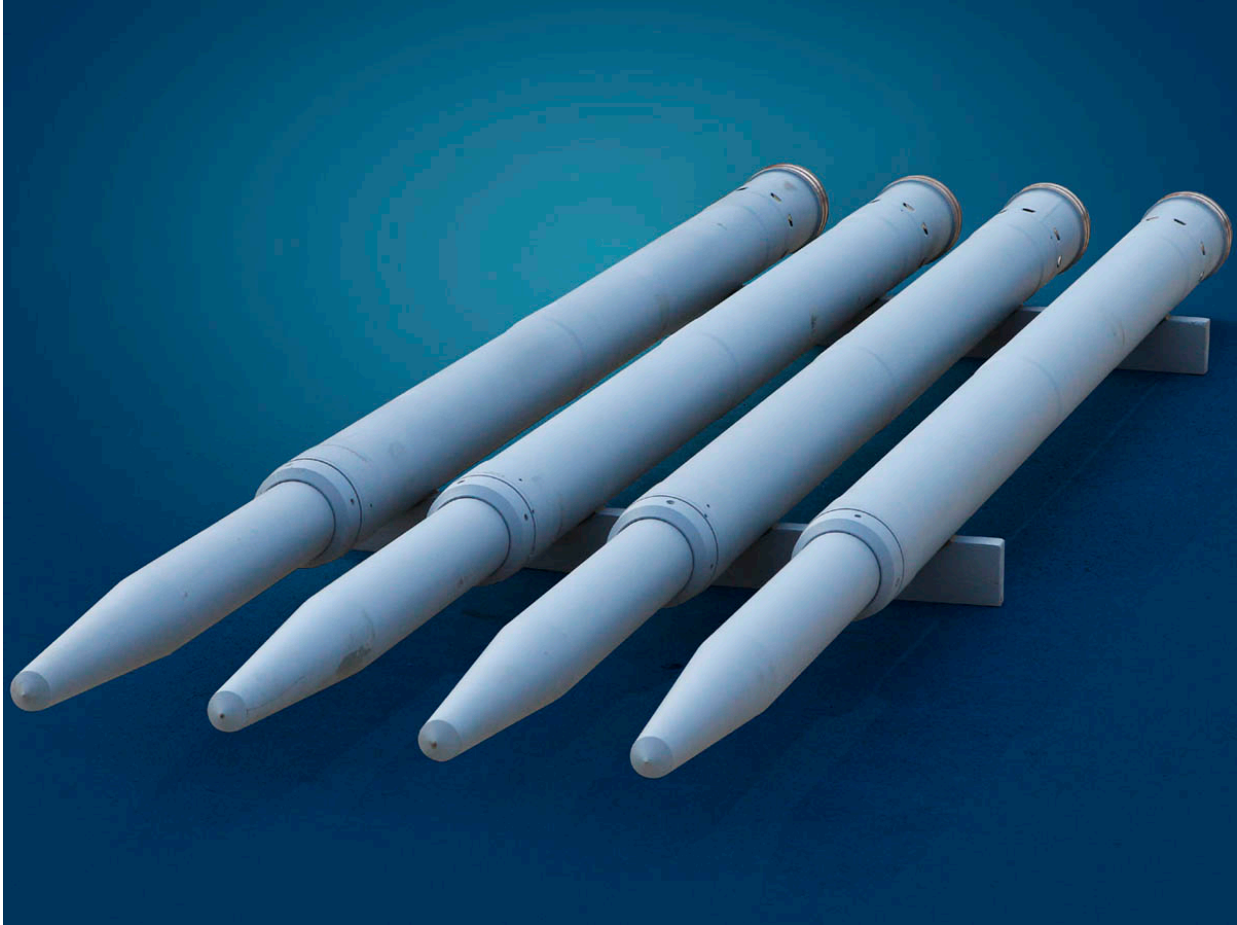
Operating temperature range for all rocket versions is $\pm 60^{\circ}$ C.

Características básicas:

- Caliber, mm: 122/90
- Length, mm: 2990
- Missile/warhead/ explosive weight, kg: 75/38 (tandem)
- Effectiveness: penetrates 6 m of earth and 1 m of reinforced concrete covered by 2-3 m of earth
- Firing range, m: 1600-4000
- Rocket flight speed, km/h: 490



- Aircraft flight speed at firing, km/h: 600-1200





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Акционерное общество



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