

HIGH EXPLOSIV AND THERMOBARIC ROUNDS **÷NEW CONCEPT÷**

Carfil company produces rounds for RPG-7 with dual effect, high explosive and thermobaric.

This means that the same round has an explosive effect (like a HE bomb) and a thermobaric effect (high temperatures and high pressures).

These effects are obtained due to the steel body, another interior arrangement of the explosive and the thermobaric composition and a much better thermobaric mixture.

This dual effect allows their use against enemy troops, light armor, concrete constructions, radars, communication centers and so on, with much greater effect than an explosive rounds or a classic thermobaric rounds.

Their design and the dimensional and mass characteristics allow to obtain ballistic performances maximum range, effective shooting distance (use of usual firing table) as well as a known rounds of soldiers, namely the 60 mm caliber (for warhead)for RPG-7.

We made a 70 mm caliber steel bomb that fits the purpose.

Comparative, the classic thermobarics large calibers are: oversized, greatly, reduce firing distances, have only thermobaric efect.

The aim of the soldiers is to strike the enemy at the long distance with a most lethal effect.

Carfil company offer three variants of thermobaric explosive rounds for RPG-7:

- the classic 40 mm warhead caliber**
- 70 mm warhead caliber with anti-ricochet impact fuze**
- 70 mm warhead caliber with delayed electronics fuze. This fuze ensures the penetration of**

concrete walls and an explosive plus thermobaric effect behind the wall. Electronic fuze is unique worldwide. They correspond to the current type of conflict: asymmetrical, antiterrorist war, urban guerrilla.



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40 MM HIGH EXPLOSIVE AND THERMOBARIC STEEL BOMB ROUND FOR THE AG 7 (OR RPG-7) PORTABLE LAUNCHER WITH IMPACT SQ FUZE WITH IMPACT SQ FUZE



TECHNICAL CHARACTERISTICS

- Warhead Caliber: 40 mm
- Net weight (round fully equipped): $\approx 1,725$ kg
- Fuze: impact SQ fuze
- Maximum medium pressure: ≤ 900 kgf/cm²
- Maximum range: ≈ 1000 m
- Temperature range: -40° C ÷ $+60^{\circ}$ C
- Precision: – A p^r/X: $\leq 1/50$
– A p^d/X: $\leq 1/200$

PACKING

- Wooden case containing 12 rounds fully equipped.
- Full case weight: 34 kgs
- Case overall dimensions: 705×490×275



and CAGE: 88POL
certificat NATO nr. 0483

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70mm HE and THERMOBARIC ROUND with IMPACT SQ FUZE FOR AG-7 (OR RPG -7)



Ammunition with explosive and thermo-baric effect responds to the demands of modern asymmetric warfare. The explosive and thermo-baric ammunition combines the explosive effect with the dispersion of metallic particles, with a strong exothermic reaction and large overpressure and decompression. Ammunition is particularly effective in confined spaces, such as tunnels, buildings and different types of fortifications.

TECHNICAL CHARACTERISTICS

- Warhead caliber: 70mm
- Total length: 895 mm
- Net weight (round fully equipped): $\approx 3,600$ kgs
- Fuze: Impact SQ
- Maximum medium pressure: ≤ 900 kgf/cm²
- Maximum range: ≈ 1200 m
- Temperature range: -40°C to +60°C
- Precision: – A_p^r/X: $\leq 1/40$
– A_p^d/X: $\leq 1/280$

PACKING

- Wooden case containing 10 rounds fully equipped in cardboard cases.
- Full case weight: 50kgs
- Case overall dimensions: 1000x500x300 mm



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70mm HE and THERMOBARIC ROUND WITH DELAY ELECTRONIC IMPACT SQ FUZE FOR AG-7 (or RPG -7)



Ammunition with explosive and thermoBaric effect responds to the demands of modern asymmetric warfare. The explosive and thermoBaric ammunition combines the explosive effect with the dispersion of metallic particles, with a strong exothermic reaction and large overpressure and decompression. Ammunition is particularly effective in confined spaces, such as tunnels, buildings and different types of fortifications. The delayed electronic fuze ensures the penetration of the walls of different thickness producing the effects behind it.

TECHNICAL CHARACTERISTICS

- Warhead caliber: 70mm
- Total length: 940 mm
- Net weight (round fully equipped): ≈ 4 kgs
- Fuze: electronic time with delay fuze
- Delay function: 10÷50 ms
- Maximum medium pressure: ≤ 900 kgf/cm²
- Maximum range: ≈ 1200 m
- Temperature range: -40°C to +60°C
- Precision: – A_p^r/X: $\leq 1/40$
– A_p^d/X: $\leq 1/280$

PACKING

- Wooden case containing 3 rounds fully equipped in cardboard cases.
- Full case weight: 20 kgs
- Case overall dimensions: 1200x400x300 mm



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