



vFAB-1000-4

General Purpose Aerial Bomb, 1000kg



Purpose:

The vFAB-1000-4 is a demolition-fragmentation aerial ballistic bomb used for annihilation and neutralization of objects (located on the surface or buried under the ground) by controlled detonation of an explosive charge. Destruction is achieved primarily by shock wave and secondarily by fragments, formed by the bursting of the steel mantle of the bomb.

The bomb can be used as unguided or as warhead of guided aircraft bombs.

The bomb is aerodynamically shaped and during the flight on its ballistic path it is stabilized by rotation, determined by means of stabilizer fins.

The bomb is general purpose, intended for bombing from adequate aircraft of NATO and RUSSIA standards and from the plane of light aviation under specific conditions.

The vFAB-1000-4 by all characteristics of functionality, shape, dimensions, material, correspond to American Aviation Bomb MK-84.

Bomb consists of:

- · Body with explosive charge
- · Conical fin
- Two suspension lugs
- · Separate tip for bomb configuration with aft fuze only
- · Protective transport plugs
- · Packaging for transport and storing

General characteristics:

• Body length without conical fin

· Length with conical fin

• Warhead diameter (max)

Conical fin span

• Distance between suspension lugs

· Warhead weight

· Gross weight with conical fin

• Mass of explosive charge - nominal

· Explosive type

Flight speed at bombing

2484 mm without tip/2551 mm with tip 3695 mm without tip/3761 mm with tip

457 mm

628/456 mm

762 mm (30 in.)

869 kg without tip/872 kg with tip

905 kg without tip/908 kg with tip

425 kc

TNT, Comp B or TRITONAL

130 - 310m/s (600kn)



Short description:

- The bomb possesses the ability to be loaded onto an aircraft weapon carrier which can carry a standard payload (not less than 1000kg) and with a rack suspension hook distance of 762mm (30").
- The bomb can be armed with two fuzes of NATO standard (front and aft).
- It can be used with basic or modern aiming systems.
- Assurances are provided that the crew and airplane are secured from the bomb during adjustment, transport, and deploying.
- The bomb functions in a temperature range of -40°C to +70°C.
- Servicing of the bomb is carried out with standard weaponry platforms, lifts and tools.
- Minimal life-span, provided it is stored in a temperature range between -40°C to +70°C and 100% humidity is 20 years. Inspections should be carried out every 5 years.
- The bomb set is developed and produced in accordance with standards:
 - MIL-STD-8591 Airborne stores, suspension, equipment and aircraft-store interface (carriage phase) Static loads, geometry, lugs, SAT procedures, lug wells, charging wells.
 - MIL-STD-810 Vibration loads
 - MIL-E-22267 Explosive filling
 - FED-STD-595B Colors used in government procurement





