

## AS-17 Krypton A [Kh-31A, ASM]

### Guided Weapon

Type: Guided Weapon

Weight: 600.0 kg

Length: 4.7 m

Span: 1.15 m

Length: 4.7 m

Diameter: 0.36

Generation: None



Properties: Home On Jam (HOJ), Bearing-Only Launch (BOL), Weapon - INS Navigation

Targets: Surface Vessel

Sensors / EW:

- Active Radar Seeker - (ASM MR, AS-17, ARGS-31) Radar, Weapon Seeker, Active Radar, Max range: 9.3 km
- Passive Radar Seeker - (AS-17 ASM) ESM, Weapon Seeker, Anti-Radiation, Max range: 18.5 km

---

Weapons / Loadouts:

- AS-17 Krypton A [Kh-31A, ASM] - Guided Weapon. Surface Max: 111.1 km.

---

**OVERVIEW:** The AS-17 KRYPTON A (K-31A) is an air-launched, medium-range, high-supersonic, liquid-fuel, ramjet-powered, active pulsed X-band radar anti-ship missile (ASM). It carries a 94 kg HE warhead.

**DETAILS:** After launch, the AS-17 is accelerated by its solid-fuel rocket booster to a speed of Mach 1.8. Then the booster is discarded and the interior of the missile is converted into the combustion chamber for the missile's ramjet engine, accelerating the missile to a speed of almost Mach 4.50. The AS-17 uses inertial guidance for the mid-course phase. Between 7 and 20 km from the target, the AS-17 turns on its radar for terminal phase guidance. The AS-17 may use two different attack profiles. It may either use a dive profile, popping up before diving into the target or set to approach the target at approximately 200 meters altitude.

**NOTES:** The AS-17 became operational in approximately 1991. It has an 8 meter CEP. It is used by MiG-27/29K/29SMT, the Su-17/24M/25TM/30MK/35. It was also exported to China, India and Vietnam where it is known as the YJ-91 and used by the JH-7A fighter. As of 2012 it was also exported to Syria. The MA-31 target drone, a variation of the AS-17, was used by the U.S. and carried by QF-4 Phantoms.

## **AS-17 Krypton A [Kh-31A, ASM]**

SOURCES: Jane's Weapons Systems, Vol. 1: Air-Launched, "Kh-31A, Kh-31P (AS-17 'Krypton'), YJ-91 'Kipper'" 15 Jan 2013; Federation of American Scientists. "Zvezda Kh-31 (AS-17 Krypton)." Accessed November 11, 2013. <http://www.fas.org/man/dod-101/sys/missile/row/as-17.htm> ; Air Power Australia. "Soviet/Russian Tactical Air-Surface Missiles." Accessed November 11, 2013. <http://www.ausairpower.net/APA-Rus-ASM.html#mozTocId784856>.