

# MK90 Propellant Grains



## Low Cost – Minimum Smoke – Low Signature Rocket Propellants

ATK Energetic Systems manufactures the MK90 propellant grain, the exclusive propellant of the APKWS weapon system. APKWS is the military's low-cost "fire-and-forget" 70mm munition that is type-qualified on numerous fixed-wing and rotary-wing platforms.

The MK90 propellant grain is configured from a doublebase, solventless propellant which offers a reliable, minimum smoke solution for battlefield concealment. ATK's unique rolling and extrusion processes assure consistent performance for the entire family of 70mm rockets worldwide.

### Propellant Characteristics

- Formulation: Solventless, double-base
- Propellant Designation: NOSIH-AA2
- Geometry: Extruded grain, 8-point interior star

### Nominal Performance Characteristics

- Velocity: 2,300 ft/sec
- Pressure: 1,500 psi
- Action Time: 1 second

### Current Platforms

- |         |         |          |         |          |         |          |
|---------|---------|----------|---------|----------|---------|----------|
| • AH-1  | • AH-64 | • OH-58D | • UH-1H | • UH-60A | • UH-1N | • MH-60  |
| • MH-6  | • UH-60 | • A-7    | • A-10  | • F-4    | • F-16  | • F/A-18 |
| • OV-10 | • A-4   | • A-6    | • AV-8B | • P-3    |         |          |



For information contact: [EnergeticSystems.BDev@atk.com](mailto:EnergeticSystems.BDev@atk.com)

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