

MK90 Propellant Grain HYDRA-70 Rocket Motor



Minimum Smoke, Low Signature

Alliant Techsystems' Ordnance Group manufactures MK90 propellant, the exclusive propellant of the HYDRA-70, MK66 rocket motor, the military's low cost, "fire-and-forget" 2.75" munition. MK90's minimum smoke, low signature propellant is manufactured in a unique rolling method to assure the reliability and precision characteristics necessary to manage the HYDRA-70's air-to-ground mission.

A MK90 grain is configured from double base, solventless NOSIH AA-2 propellant. When ignited, the MK90 grain produces a low signature for battlefield concealment. When combined with other HYDRA-70 components, the MK90 grain is a tailor-made solution for both high explosive and submunition payloads, and can also be used with smoke and illumination warheads.

Propellant Characteristics

- Formulation: Solventless double base
- Geometry: Extruded grain, 8 point interior star
- Velocity: 2,300 ft./sec.
- Pressure: 1,500 psi
- Action Time: 1 second

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