

Propellant & Igniter for Booster and Sustainer Motors of

Short Range Anti Ship Missile

The propulsion system of Short range anti ship missile consists of two motors, a booster motor and a sustainer motor.

The propellants for both the motors are solid composite propellants. The propellant for Sustainer motor is a case bonded reduced smoke composite propellant and the configuration is end burning mode. Whereas, for booster motor, the propellant is case bonded high burn rate propellant in star configuration.

Torch shaped metallic canister mounted on the adapter of the head end lid has been designed and developed for booster Motor. The sustainer igniter is assembled in the rear end of the motor. The igniter composition for both is boron based pyrotechnic composition in pellet form. Both the igniters have flash holes for communication of flame from igniter to the propellant surface and are initiated by pyros.

The technology for processing of propellant and igniters is fully established by HEMRL and the performance has been successfully demonstrated in various trials.

Now this technology is completely matured and the same can be transferred to production agencies for further requirements.