G-2000P ROCKET MOTOR 122mm

Reduced-Mass Rocket Motor with Full-Range Performance

The G-2000P rocket motor is a reduced-mass, shortened variant designed to deliver the same range as the original GRAD rocket motor while offering improved handling and lower operational demands. It features a single propellant grain inhibited along the outer surface and front end, manufactured from a modern thermoplastic composite propellant with stable energetic, mechanical and ageing characteristics. The motor incorporates a steel nozzle with ablative protection and a single graphite throat, ensuring durability under high thermal loads. With the standard G-2000P configuration the rocket motor reaches 19 km; fitted with the in-house warheads - SL the range is 20 km, while the SL+ provides 18.9 km.

MAIN SPECIFICATIONS

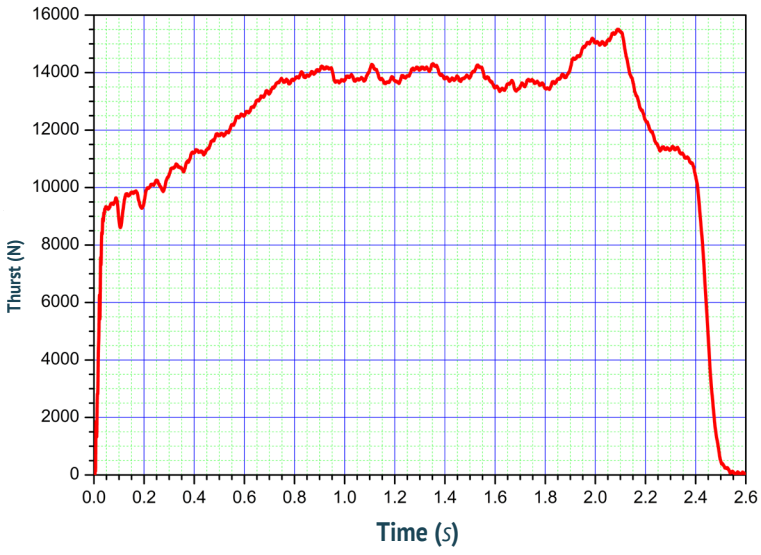
propellant mass 12.95kg

low-logistics, high-mobility

fully compatible with all 122mm launchers

NSN 1340-73-000-0680

THRUST-TIME DIAGRAM



TECHNICAL SPECIFICATIONS

Parameter	Value
Caliber	122 mm
Propellant type	thermoplastic composit
RM mass	27.3 kg
Propellant grains's mass	12.95 kg
RM's Length	1,239 mm
Temperature range	-30 ÷ +60°C
Thread	M115x2
Igniter type	electrical pyrogenic
Ignition circuit electric	0.7 Ω - 3.0 Ω
Total motor impulse	30,540 Ns +/-400
Motor operating time	2.4s +/-0.3
Shelf life	10 yrs*
Armament fit	BM-21 GRAD MLRS, RM-70

*under proper storage conditions

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