



HEZARFEN SPACE

Rocket Propulsion Laboratory

Hezarfen Space Rocket Propulsion
Laboratory Motor Testing Division
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Hezarfen Space LTD.
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The MAYA 18 rocket engine was tested on 22 March 2025 by the Hezarfen Space team at our test stand. This test was carried out for the purpose of evaluating data on the performance of the engine, and no definitive determination was made as to its full compliance with the NFPA 1125 standard. However, according to the test results, the engine was judged to be suitable for model rocketry use and was approved by members of the Hezarfen Space Rocket Propulsion Laboratory Motor Testing Division.

Motor Details

Motor Manufacturer	Hezarfen Space LTD.
Manufacturer's Designation	ARMS – Amateur Rocket Motor System, single use
Propellant	C-Slot & Standart Burn
TMT Nomenclature	782 / C

Physical Characteristics

Diameter	0.709"	/	18 mm
Overall Length (Forward Closure & Nozzle Included)	3.740	/	95mm
Case Length	2.756"	/	70 mm
Inner Diameter	0.610"	/	15,5 mm
Wall Thickness	0.049"	/	1,25 mm

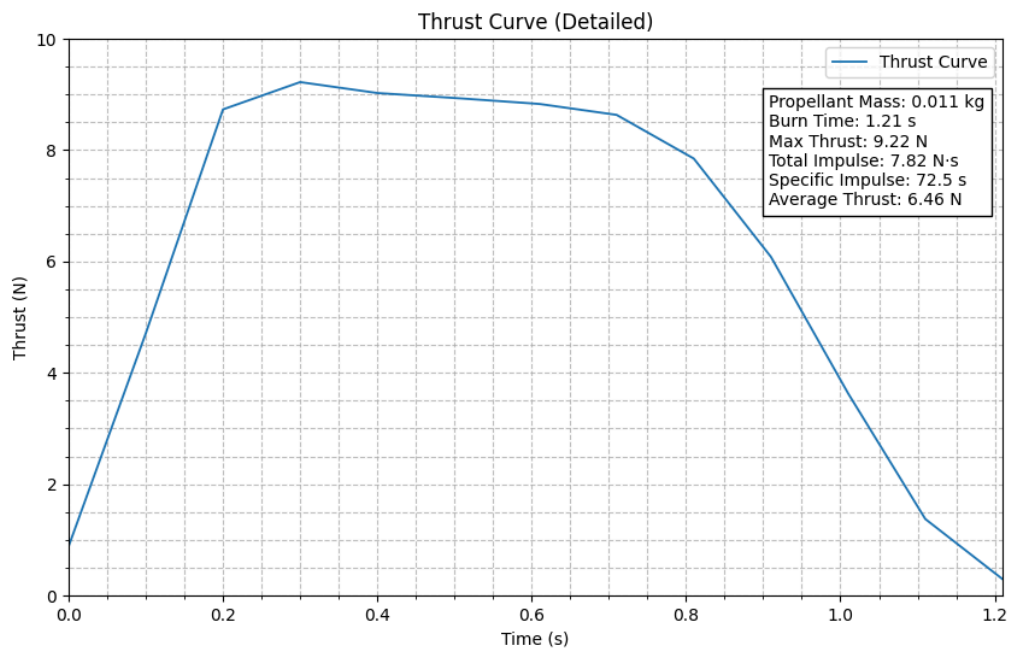
Mass Data

Loaded Mass	0.046 lb	/	21 g
Propellant Mass	0.024 lb	/	11 g*
Burnout Mass	0.022 lb	/	10 g

Performance Data

Burn Time	1.21 sec		
Total Impulse	1.758 lbf.s	/	7.82 N.s
Specific Impulse	72.5 sec		
Max Thrust	2.073 lbf	/	9.22 N
Average Thrust	1.452 lbf	/	6.46 N

(*data provided by manufacturer)



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Sincerely,

Hezarfen Space Rocket Propulsion Laboratory