



HEZARFEN SPACE

Rocket Propulsion Laboratory

Hezarfen Space Rocket Propulsion
Laboratory Motor Testing Division
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April 2, 2025

Hezarfen Space LTD.
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London, United Kingdom, WC2H 9JQ

The TEO 18 rocket engine was tested on 2 April 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	746 / C

Physical Characteristics

Diameter	0.709”	/ 18 mm
Overall Length (Forward Closure & Nozzle Included)	4.330”	/ 115 mm
Case Length	3.543”	/ 90 mm
Inner Diameter	0.610”	/ 15,5 mm
Wall Thickness	0.049”	/ 1,25 mm

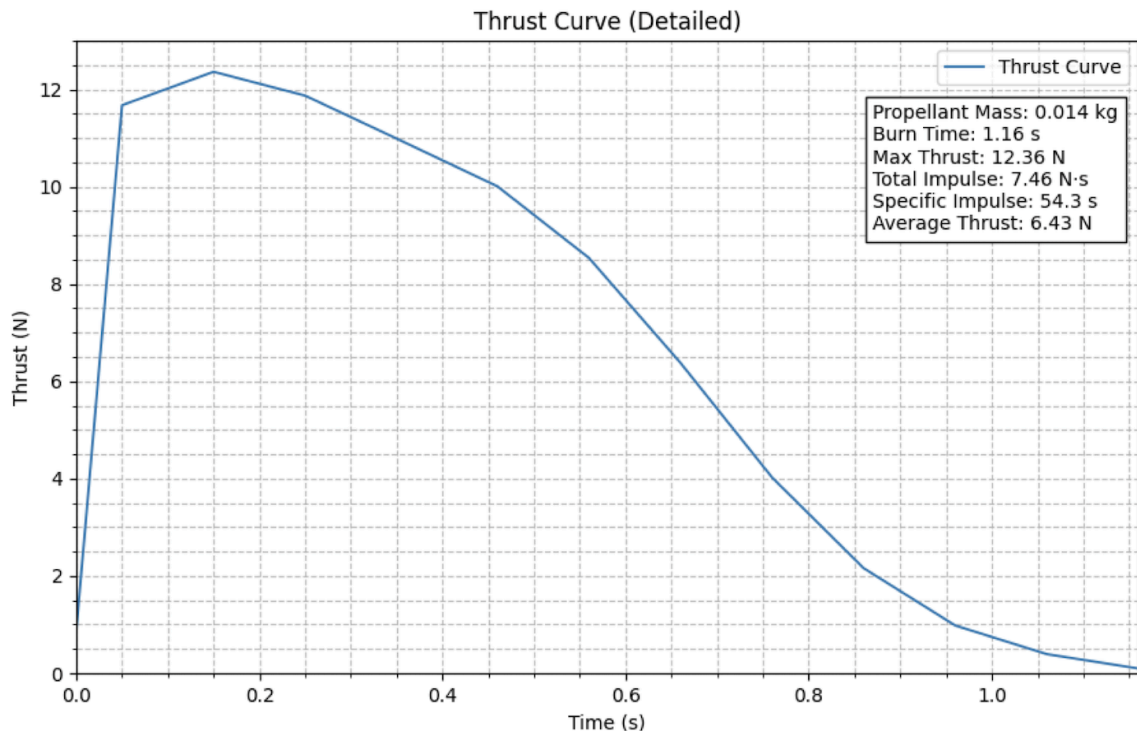
Mass Data

Loaded Mass	0.057 lb	/ 26 g
Propellant Mass	0.031 lb	/ 14 g*
Burnout Mass	0.027 lb	/ 12 g

Performance Data

Burn Time	1.16 sec	
Total Impulse	1.677 lbf.s	/ 7.46 N.s
Specific Impulse	54.3 sec	
Max Thrust	2.778 lbf	/ 12.36 N
Average Thrust	1.445 lbf	/ 6.43 N

(*data provided by manufacturer)



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Sincerely,

Hezarfen Space Rocket Propulsion Laboratory