

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH D9

Effective Dates: NAR Certification: Sept 1, 1998 Contest Use: Oct 31, 1998

Certified Total Impulse (N-sec): 20.00 Delay Times: 4, 7

Propellant Type: Composite Propellant Mass (gm): 10.1

Casing Diameter (mm): 24 Casing Length (mm): 70

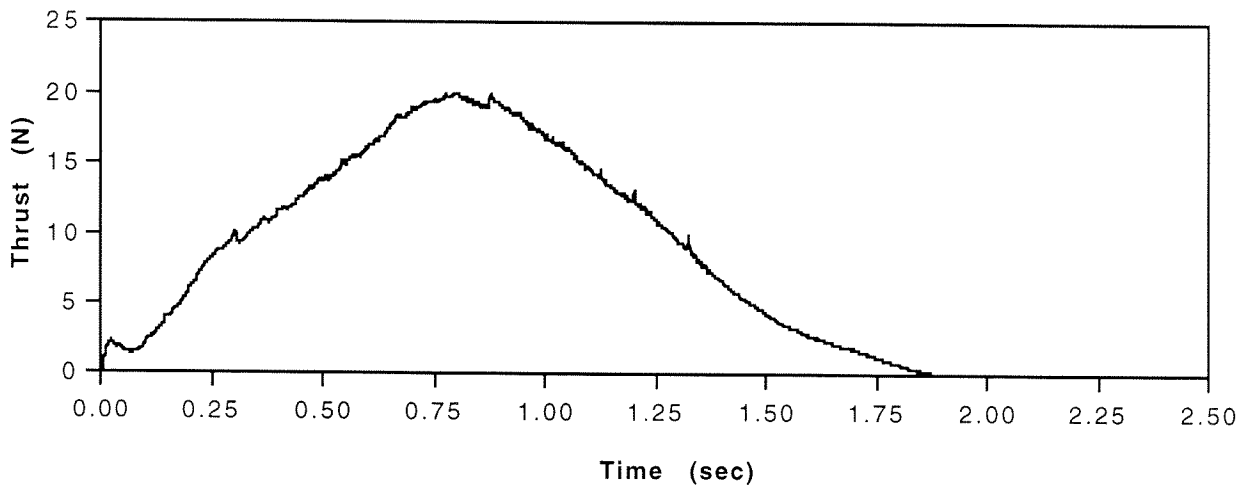
- - - - - STATIC TEST DATA - - - - -

Number Tested: 12 Casing Date Codes:
Date Tested: Aug 29, 1998 Test Temp (°c): 23 Elevation (ft): 200
Total Impulse (N-sec): 18.76 std. deviation: 0.23
Peak Thrust (newtons): 20.00 std. deviation: 1.58
Burn Time (seconds): 1.88 std. deviation: 0.16
Casing Burnt Mass (gm): 31.6 Max Casing External Temp (°c): under 200

Delay Time (sec)	4	7
Initial Mass (gm)	46.9	47.4
Avg. Measured Delay	4.45	7.58

Remarks: Uses AEROTECH RMS-24/40 Reload System and AEROTECH D9 reload kit. No substitutions allowed.

Typical Thrust - Time Curve:



Committee Chairman