

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH F52

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

Certified Total Impulse (N-sec): 78.00 Delay Times: 5, 8, 11

Propellant Type: Composite Propellant Mass (gm): 36.6

Casing Diameter (mm): 29 Casing Length (mm): 124

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

Number Tested: 9 Casing Date Codes:

Date Tested: Aug 29, 1998 Test Temp (°c): 23 Elevation (ft): 200

Total Impulse (N-sec): 72.95 std. deviation: 0.88

Peak Thrust (newtons): 78.95 std. deviation: 8.22

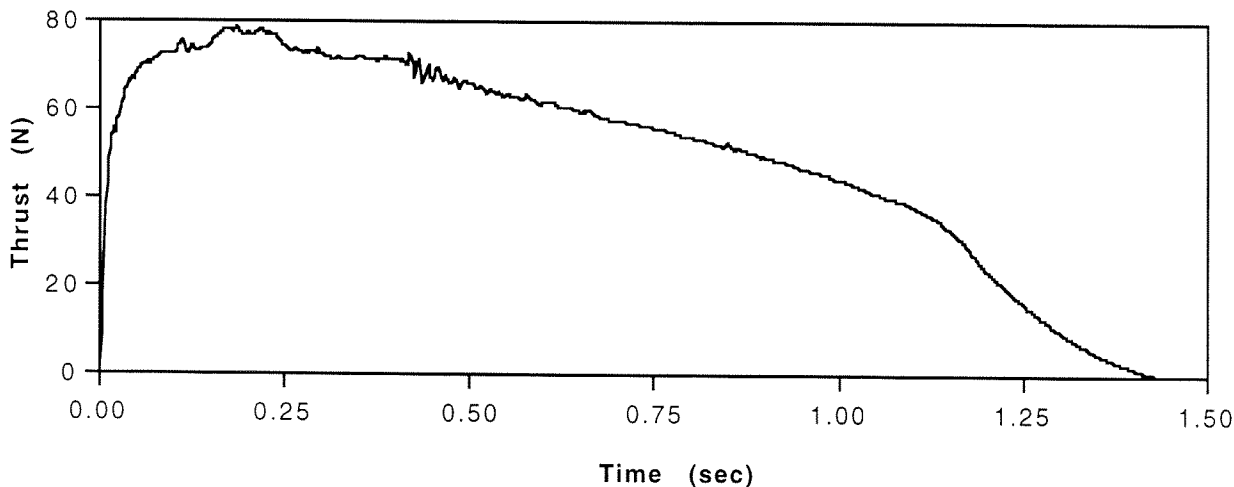
Burn Time (seconds): 1.42 std. deviation: 0.12

Casing Burnt Mass (gm): 77.5 Max Casing External Temp (°c): under 200

Delay Time (sec)	5	8	11
Initial Mass (gm)	121.1	121.6	121.6
Avg. Measured Delay	5.75	8.85	11.56

Remarks: Uses AEROTECH RMS-29/40-120 Reload System and AEROTECH F52 reload kit. No substitutions allowed.

Typical Thrust - Time Curve:



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Committee Chairman