

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH G40

Effective Dates: NAR Certification: Continuing Contest Use: Continuing

Certified Total Impulse (N-sec): 120.00 Delay Times: 4, 7, 10

Propellant Type: Composite Propellant Mass (gm): 62.4

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

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

Number Tested: 6 Casing Date Codes: 5D4B8
Date Tested: 9/2/95 Test Temp (°c): 22 Elevation (ft): 200
Total Impulse (N-sec): 113.74 std. deviation: 1.52
Peak Thrust (newtons): 66.85 std. deviation: 6.81
Burn Time (seconds): 3.06 std. deviation: 0.07
Casing Burnt Mass (gm): 46.0 Max Casing External Temp (°c): under 200

Delay Time (sec)	4	7	10
Initial Mass (gm)	114.0	115.0	114.6
Avg. Measured Delay	3.48	7.97	11.15

Remarks:

Typical Thrust - Time Curve:

