

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH G42

Effective Dates: NAR Certification: Continuing Contest Use: Continuing

Certified Total Impulse (N-Sec): 90.00 Delay Times: 4, 8, 12

Propellant Type: Composite Propellant Mass (GM): 48.8

Casing Diameter (MM): 24 Casing Length (MM): 144

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

Number Tested: 6 Casing Date Codes: 5D4C1  
Date Tested: 9/2/95 Test Temp (°c): 21 Elevation (FT): 200  
Total Impulse (N-Sec): 89.16 std. deviation: 0.77  
Peak Thrust (Newtons): 58.63 std. deviation: 1.80  
Burn Time (Seconds): 2.56 std. deviation: 0.04  
Casing Burnt Mass (GM): 35.9 Max Casing External Temp (°c): under 200

Delay Time (sec)	4	8	12
Initial Mass (gm)	94.7	95.0	94.7
Avg. Measured Delay	3.82	8.15	12.60

Remarks:

Typical Thrust - Time Curve:

