

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH E45

Effective Dates: NAR Certification: Continuing Contest Use: Continuing

Certified Total Impulse (N-sec): 40.00 Delay Times: 4, 8, 12

Propellant Type: Composite Propellant Mass (gm): 19.2

Casing Diameter (mm): 18 Casing Length (mm): 107

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

Number Tested: 6 Casing Date Codes: 5E13E
Date Tested: 4/22/95 Test Temp (°c): 20 Elevation (ft): 50
Total Impulse (N-sec): 37.40 std. deviation: 0.46
Peak Thrust (newtons): 59.40 std. deviation: 5.46
Burn Time (seconds): 1.04 std. deviation: 0.04
Casing Burnt Mass (gm): 12.1 Max Casing External Temp (°c): under 200

Delay Time (sec)	4	8	12
Initial Mass (gm)	35.5	35.9	35.9
Avg. Measured Delay	4.19	7.40	9.86

Remarks:

Typical Thrust - Time Curve:

