

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH D21

Effective Dates: NAR Certification: Nov 6, 1988 Contest Use: Feb 6, 1989

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

Propellant Type: Composite Propellant Mass (gm): 9.6

Casing Diameter (mm): 18 Casing Length (mm): 70

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

Number Tested: 6 Casing Date Codes: 5D4BD
Date Tested: 9/3/95 Test Temp (°c): 21 Elevation (ft): 200
Total Impulse (N-Sec): 19.59 std. deviation: 0.24
Peak Thrust (Newtons): 32.12 std. deviation: 0.92
Burn Time (Seconds): 0.94 std. deviation: 0.05
Casing Burnt Mass (GM): 10.4 Max Casing External Temp (°c): under 200

Delay Time (sec)	4	7
Initial Mass (gm)	24.9	25.0
Avg. Measured Delay	4.80	7.38

Remarks:

Typical Thrust - Time Curve:

