

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH D13 RELOADABLE

Effective Dates: NAR Certification: Aug 5, 1993 Contest Use: Nov 1, 1993

Certified Total Impulse (N-Sec): 20.00 Delay Times: 4, 7, 10

Propellant Type: Composite Propellant Mass (GM): 9.8

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

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

Number Tested: 9 Casing Date Codes: None
Date Tested: Nov 3, 1991 Test Temp (°c): 16 Elevation (FT): 100
Total Impulse (N-Sec): 19.26 std. deviation: 0.64
Peak Thrust (Newtons): 23.61 std. deviation: 1.63
Burn Time (Seconds): 1.52 std. deviation: 0.05
Casing Burnt Mass (GM): 18.1 Max Casing External Temp (°c): under 200

Delay Time (SEC)	4	7	10
Initial Mass (GM)	31.0	31.4	31.9
Avg. Measured Delay	3.32	6.80	8.27

Remarks: Uses AEROTECH RMS-18/20 Reload System and AEROTECH D13 Reload Kit. No substitutions allowed.

Typical Thrust - Time Curve:

