

NAR OFFICIAL CERTIFICATION LABORATORY

HIGH POWER ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH G33 RELOADABLE

Effective Dates: NAR Certification: June 12, 1994 Contest Use:

Certified Total Impulse (N-Sec): 100.00 Delay Times: 5, 7

Propellant Type: Composite Propellant Mass (gm): 72.2

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

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

Number Tested: 11 Casing Date Codes: None

Date Tested: June 11, 1994 Test Temp (°C): 24 Elevation (ft): 200

Total Impulse (N-Sec): 98.39 std. deviation: 1.02

Peak Thrust (newtons): 50.92 std. deviation: 3.31

Burn Time (seconds): 3.27 std. deviation: 0.25

Casing Burnt Mass (gm): 82.5 Max Casing External Temp (°C): under 200

Delay Time (SEC)	5	7
Initial Mass (GM)	159.3	159.4
Avg. Measured Delay	4.98	7.65

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Remarks: Uses AEROTECH RMS-29/40-120 Reload System and AEROTECH G33 reload kit. No substitutions allowed.

Typical Thrust - Time Curve:

