

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: Aerotech I285R

Effective Dates: NAR Certification: 6/4/01

Contest Use: TBA

Certified Total Impulse (N-Sec): 420.00

Initial Mass (GM): 458.6

Propellant Type: Composite

Propellant Mass (GM): 230.2

Casing Diameter (MM): 38

Casing Length (MM): 250

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

Number Tested: 9

Casing Date Codes:

Date Tested: 6/3/01

Test Temp (°c): 23

Elevation (FT): 500

Total Impulse (N-Sec): 419.95

std. deviation: 1.71

Peak Thrust (Newtons): 379.61

std. deviation: 19.55

Burn Time (Seconds): 1.38

std. deviation: 0.01

Casing Burnt Mass (GM): 218.7

Max Casing External Temp (°c): under 200

Remarks: This reload uses the RMS-38/480 case and REDLINE propellant

Typical Thrust - Time Curve:

