AEROTECH D13

CERTIFIED VALUES

Total Impulse: 20 newton-seconds
Delays: 4, 7, 10 seconds

Propellant Type: Composite
Propellant Mass: 9.8 grams

Casing Dimensions: 18 mm × 70 mm

Certification Date: 93-August-5
Contest Use Date: 93-November-1

Certification Type: Model Rocket

STATIC TEST DATA

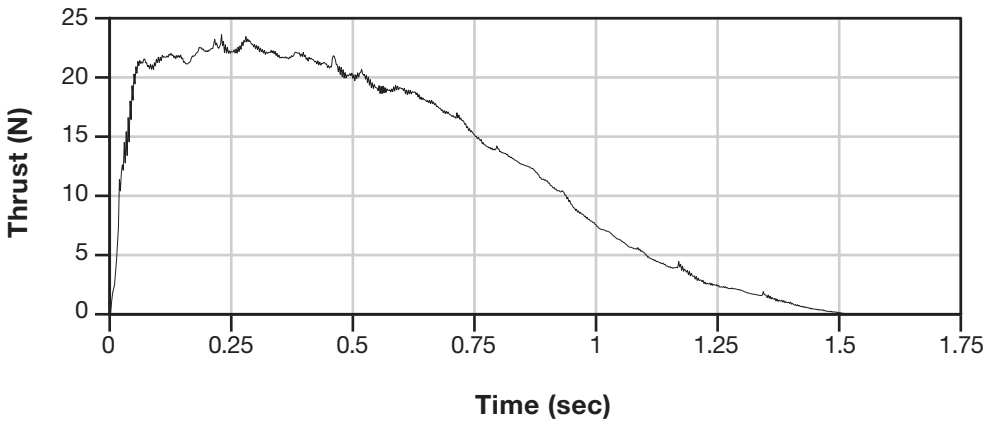
Date Tested: 91-November-3

Total Impulse: 19.26 newton-seconds (σ 0.64)
Peak Thrust: 23.61 newtons (σ 1.63)
Burn Time: 1.52 seconds (σ 0.05)
Average Thrust: 12.67 newtons

Mass After Firing: 18.1 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
4	3.32	31.0 g	454 g
7	6.80	31.4 g	318 g
10	8.27	31.9 g	227 g

TYPICAL THRUST-TIME CURVE



REMARKS

Uses AeroTech RMS-18/20 Reload System and AeroTech D13 Reload Kit. No substitutions allowed.

Updated: 8/96

; Aerotech D13 RASP.ENG file made from NAR published data
; File produced July 4, 2000
; The total impulse, peak thrust, average thrust and burn time are
; the same as the averaged static test data on the NAR web site in
; the certification file. The curve drawn with these data points is as
; close to the certification curve as can be with such a limited
; number of points (32) allowed with wRASP up to v1.6.
D13 18 70 4-7-10 0.0098 0.0314 A
0.030 13.462
0.061 21.171
0.085 20.618
0.127 21.605
0.158 21.042
0.182 22.306
0.217 22.592
0.227 23.610
0.248 21.891
0.279 23.155
0.317 22.039
0.366 21.338
0.383 21.901
0.449 20.648
0.462 21.486
0.480 19.947
0.507 19.947
0.521 20.509
0.559 18.693
0.580 19.118
0.660 17.578
0.743 15.337
0.861 12.406
0.947 9.329
1.068 5.834
1.155 4.158
1.172 4.720
1.231 2.762
1.328 1.928
1.404 1.093
1.520 0.000