

AEROTECH D24

CERTIFIED VALUES

Total Impulse: 18.5 newton-seconds
Delays: 4, 7 seconds and Plugged

Propellant Type: Composite
Propellant Mass: 8.7 grams

Casing Dimensions: 18 mm x 70 mm

Certification Date: 2001–March–4

Certification Type: Model Rocket

STATIC TEST DATA

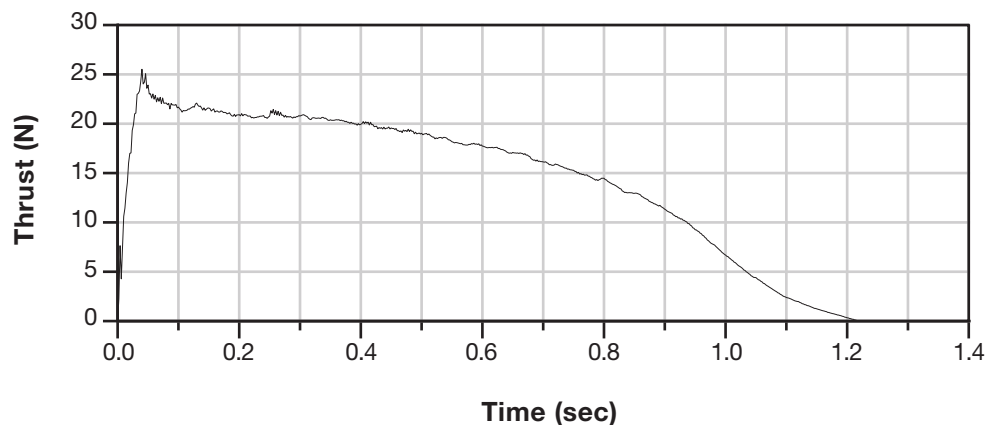
Date Tested: 2001–March–3

Total Impulse: 18.02 newton-seconds (σ 0.68)
Peak Thrust: 25.52 newtons (σ 4.63)
Burn Time: 1.22 seconds (σ 0.15)
Average Thrust: 14.77 newtons

Mass After Firing: 17.1 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
4	4.17	30.5 g	
7	7.69	31.1 g	

TYPICAL THRUST-TIME CURVE



REMARKS

Uses AeroTech RMS-18/20 Reload System and AeroTech D24 Reload Kit. No substitutions allowed.

```

; AEROTECH D24 RASP.ENG file made from NAR data
; File produced August 22, 2002
; 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.

```

```

D24 18 70 4-7-P 0.0087 0.0308 A
0.010 10.992
0.015 14.575
0.023 18.641
0.041 25.52
0.048 23.419
0.060 22.576
0.108 21.141
0.127 21.853
0.189 21.141
0.245 20.769
0.255 21.01
0.365 20.408
0.421 19.805
0.473 19.324
0.572 17.999
0.676 16.673
0.734 15.71
0.780 14.395
0.803 14.515
0.828 13.07
0.884 11.996
0.940 9.838
0.973 8.163
1.020 5.649
1.070 3.373
1.116 1.936
1.151 0.977
1.220 0

```

