

AEROTECH E11

CERTIFIED VALUES

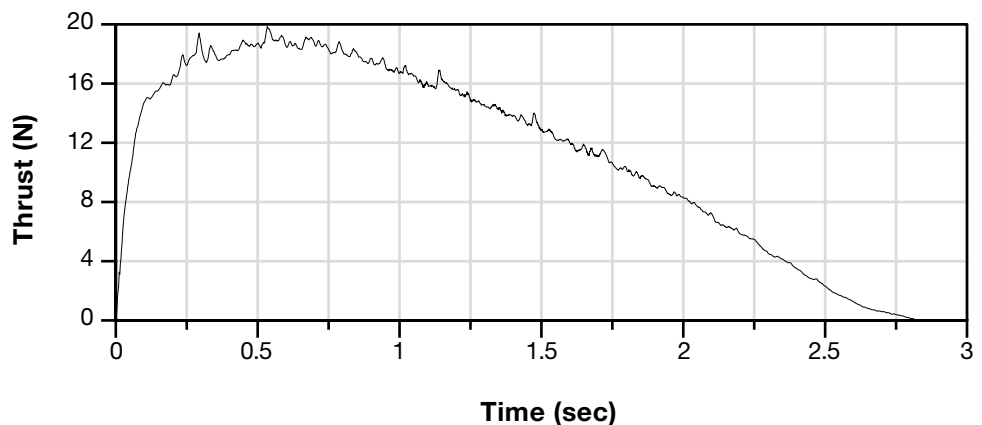
Total Impulse: 35 newton-seconds
Delays: 4 seconds
Propellant Type: Composite
Propellant Mass: 25.0 grams
Casing Dimensions: 24 mm × 70 mm
Certification Date: 93-December-23
Contest Use Date: 94-March-23
Certification Type: Model Rocket

STATIC TEST DATA

Date Tested: 92-August-13
Total Impulse: 32.74 newton-seconds (σ 1.04)
Peak Thrust: 19.85 newtons (σ 0.95)
Burn Time: 2.83 seconds (σ 0.18)
Average Thrust: 11.57 newtons
Mass After Firing: 32.9 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
4	4.25	62.4 g	340 g

TYPICAL THRUST-TIME CURVE



REMARKS

Uses AeroTech RMS-24/40 Reload System and AeroTech E11 Reload Kit. No substitutions allowed.

; Aerotech E11 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.

```

E11 24 70 4 .0250 .0624 A
0.030 7.660
0.094 14.539
0.216 16.874
0.280 17.868
0.298 19.200
0.315 17.759
0.338 18.415
0.373 17.749
0.507 18.633
0.536 19.850
0.571 18.961
0.652 18.295
0.687 18.852
0.745 18.514
0.814 17.957
0.907 17.620
0.994 16.954
1.127 15.612
1.145 16.725
1.191 15.612
1.284 14.608
1.411 13.605
1.504 12.820
1.655 11.706
1.811 10.037
1.945 8.699
2.084 7.362
2.281 4.912
2.501 2.350
2.687 0.566
2.785 0.118
2.830 0.000
  
```

