

# AEROTECH G25

## CERTIFIED VALUES

Total Impulse: 120 newton-seconds  
Delays: 5, 10, 15 seconds

Propellant Type: Composite  
Propellant Mass: 62.5 grams

Casing Dimensions: 29 mm × 124 mm

Certification Date: Continuing  
Contest Use Date: Continuing

Certification Type: Model Rocket

## STATIC TEST DATA

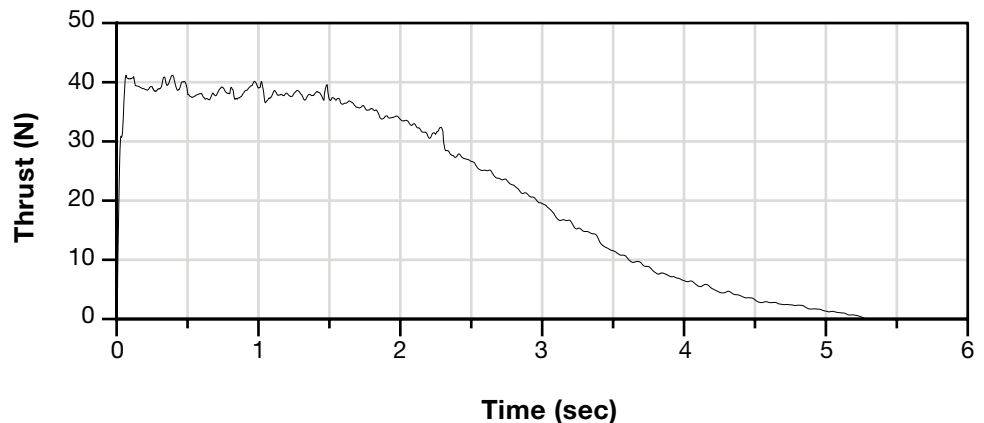
Date Tested: 95-September-2

Total Impulse: 117.50 newton-seconds ( $\sigma$  0.92)  
Peak Thrust: 41.18 newtons ( $\sigma$  2.47)  
Burn Time: 5.30 seconds ( $\sigma$  0.12)  
Average Thrust: 22.17 newtons

Mass After Firing: 46.9 grams

| Delay Time | Average Measured Delay | Initial Mass | Mfg Recommended Max Liftoff Weight |
|------------|------------------------|--------------|------------------------------------|
| 5          | 5.23                   | 121.0 g      | 680 g                              |
| 10         | 9.63                   | 120.9 g      | 454 g                              |
| 15         | 15.30                  | 117.1 g      | 284 g                              |

## TYPICAL THRUST-TIME CURVE



## REMARKS

; Aerotech G25 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.

```
G25 29 124 5-10-15 .0625 .1197 A
0.035 30.499
0.047 36.712
0.059 41.180
0.130 40.669
0.177 38.969
0.295 38.969
0.343 40.947
0.413 40.380
0.437 38.690
0.484 39.824
0.532 37.845
0.650 37.557
0.721 38.969
0.803 38.690
0.850 37.279
0.980 39.535
1.063 36.434
1.098 38.124
1.252 37.845
1.370 37.279
1.583 37.000
1.819 35.300
1.984 33.610
2.185 31.344
2.315 28.809
2.622 24.286
3.024 18.917
3.390 13.838
3.839 7.624
4.323 4.518
4.783 2.541
5.300 0.000
```

