

# AEROTECH G35

## CERTIFIED VALUES

Total Impulse: 105 newton-seconds  
Delays: 4, 7 seconds

Propellant Type: Composite  
Propellant Mass: 50.0 grams

Casing Dimensions: 29 mm × 98 mm

Certification Date: 96-October-14  
Contest Use Date: 97-March-3

Certification Type: Model Rocket

## STATIC TEST DATA

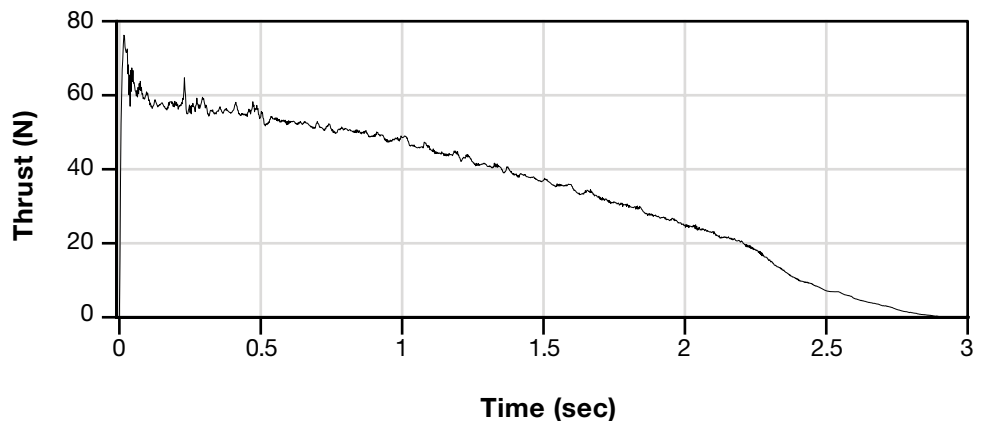
Date Tested: 96-October-13

Total Impulse: 100.82 newton-seconds ( $\sigma$  0.97)  
Peak Thrust: 76.22 newtons ( $\sigma$  8.47)  
Burn Time: 2.91 seconds ( $\sigma$  0.08)  
Average Thrust: 34.65 newtons

Mass After Firing: 31.7 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
4	4.29	100.5 g	
7	7.57	100.4 g	

## TYPICAL THRUST-TIME CURVE



## REMARKS

; Aerotech G35 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.

```
G35 29 98 4-7 .0500 .1005 A
0.013 39.137
0.020 76.220
0.050 64.463
0.134 57.542
0.206 57.532
0.236 64.432
0.248 57.058
0.350 56.121
0.427 55.195
0.476 57.492
0.505 52.414
0.547 53.331
0.757 50.541
0.907 50.057
1.111 44.960
1.321 41.242
1.549 35.681
1.597 36.135
1.627 33.364
1.669 34.281
1.801 30.121
2.005 25.023
2.143 21.316
2.227 19.462
2.298 15.765
2.406 9.761
2.526 6.519
2.652 3.737
2.742 1.881
2.910 0.000
```

