

# APOGEE C6

## CERTIFIED VALUES

Total Impulse: 10.0 newton-seconds  
Delays: 4, 7, 10 seconds

Propellant Type: Composite  
Propellant Mass: 7.0 grams

Casing Dimensions: 13 mm × 83 mm

Certification Date: 99-August-29  
Contest Use Date: 99-November-30

Certification Type: Model Rocket

## STATIC TEST DATA

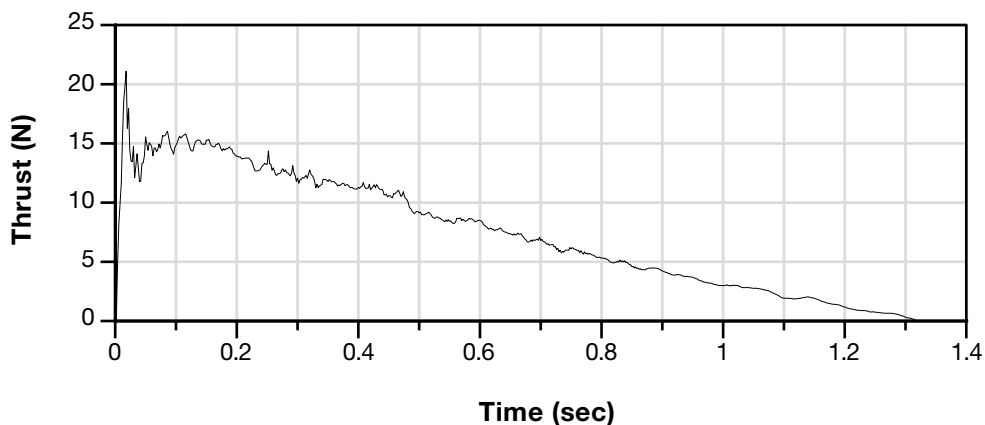
Date Tested: 99-August-28

Total Impulse: 9.98 newton-seconds ( $\sigma$  0.23)  
Peak Thrust: 21.10 newtons ( $\sigma$  3.27)  
Burn Time: 1.32 seconds ( $\sigma$  0.07)  
Average Thrust: 7.56 newtons

Mass After Firing: 6.5 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
4	3.46	15.5 g	
7	6.80	14.8 g	
10	9.97	15.0 g	

## TYPICAL THRUST-TIME CURVE



## REMARKS



; Apogee C6 RASP.ENG file made from NAR published data  
 ; File produced September 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.

C6 13 83 4-7-10 .0070 .0151 APO  
 0.008 13.958  
 0.016 21.100  
 0.022 15.511  
 0.030 12.831  
 0.052 14.800  
 0.081 15.927  
 0.092 14.658  
 0.114 16.069  
 0.125 14.658  
 0.136 15.369  
 0.168 14.800  
 0.214 13.816  
 0.225 12.973  
 0.247 13.958  
 0.252 12.831  
 0.285 12.547  
 0.307 12.405  
 0.317 12.831  
 0.328 11.562  
 0.347 11.988  
 0.393 11.420  
 0.442 10.719  
 0.464 11.136  
 0.488 9.164  
 0.545 8.459  
 0.624 7.754  
 0.716 6.485  
 0.838 5.075  
 0.977 3.102  
 1.096 1.833  
 1.207 0.986  
 1.320 0.000

