

# AEROTECH D9

## CERTIFIED VALUES

Total Impulse: 20 newton-seconds  
Delays: 4, 7 seconds

Propellant Type: Composite  
Propellant Mass: 10.1 grams

Casing Dimensions: 24 mm × 70 mm

Certification Date: 98-September-1  
Contest Use Date: 98-October-31

Certification Type: Model Rocket

## STATIC TEST DATA

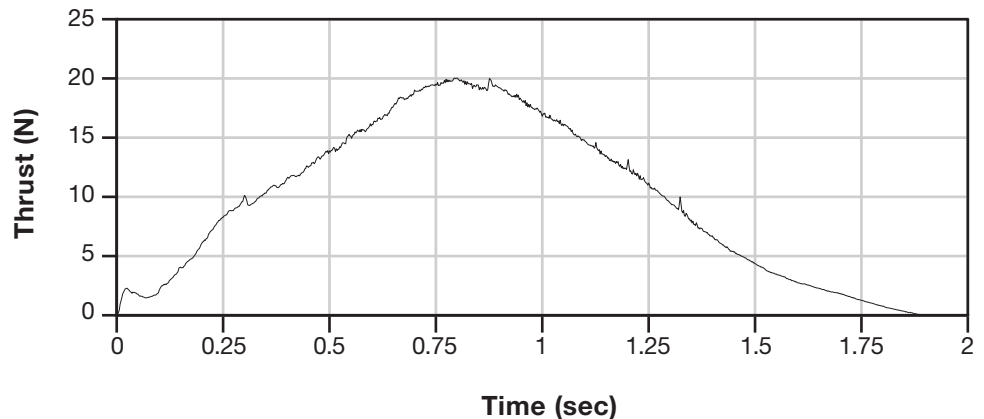
Date Tested: 98-August-29

Total Impulse: 18.76 newton-seconds ( $\sigma$  0.23)  
Peak Thrust: 20.00 newtons ( $\sigma$  1.58)  
Burn Time: 1.88 seconds ( $\sigma$  0.16)  
Average Thrust: 9.98 newtons

Mass After Firing: 31.6 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
4	4.45	46.9 g	
7	7.58	47.4 g	

## TYPICAL THRUST-TIME CURVE



## REMARKS

Uses AeroTech RMS-24/40 Reload System and AeroTech D9 Reload Kit. No substitutions allowed.

; Aerotech D9 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.

D9 24 70 4-7 0.0101 0.0471 A  
0.023 2.204  
0.077 1.653  
0.177 4.960  
0.269 8.817  
0.308 9.920  
0.315 9.368  
0.358 10.604  
0.415 11.940  
0.515 13.917  
0.623 16.675  
0.731 19.155  
0.792 20.000  
0.865 19.155  
0.889 19.562  
0.923 18.600  
1.038 16.120  
1.115 14.195  
1.185 12.538  
1.277 10.336  
1.373 7.440  
1.485 4.822  
1.612 2.755  
1.762 1.240  
1.880 0.000

